

# ANTIBODY NEWSLETTER

Winter 2011



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## New U.S. Office:

### Acris Antibodies, Inc., California

Acris Antibodies, headquartered in Germany, opened their U.S. office in San Diego, California, on February 1st, 2011. The company entered the U.S., Canadian and South American markets with more than 80,000 antibodies and associated products for life science research.

The American antibody market is the largest in the world. Acris Antibodies has married a market-tested product portfolio to experienced U.S. staff to capitalize on the growing demand in the life science sector. Alongside products directed to a large user base, the broad scope of products drives penetration into niche markets, often with products unique to the U.S. market.

Six months after opening, reception to the company's offerings exceeds projections, and validates investment into the U.S. enterprise to provide quality products and exceptional customer support. Additional customer benefits include faster shipping and cost-effective pricing in U.S. dollars.




Visit [www.acris-antibodies.com](http://www.acris-antibodies.com)  
for alerts on new products and promotions  
or email us:  
[US-info@acris-antibodies.com](mailto:US-info@acris-antibodies.com).

### Neuroscience 2011

Booth 2329  
Washington, DC, USA  
12. - 16. November, 2011

### ASCB Annual Meeting

(The American Society  
for Cell Biology)  
Booth 1050  
Denver, CO, USA  
3. - 7. December, 2011



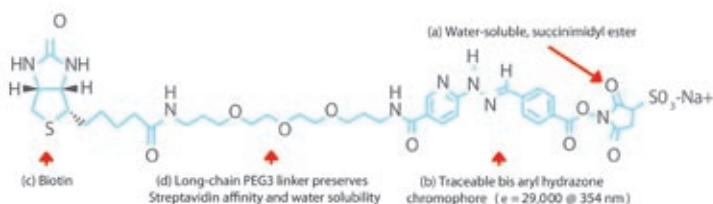
**100% Quality Guarantee**  
Satisfaction or money back  
for all characterized species  
and applications

# SoluLink

## UV-traceable Biotinylation and Linkable Magnetic Beads

SoluLink's proprietary linking technology is based on the reaction of an aromatic hydrazine with an aromatic aldehyde. Biomolecule 1 is linked to HyNic, (6-hydrazino-nicotinic acid, an aromatic hydrazine) and biomolecule 2 is linked to 4FB (4-formylbenzoate, an aromatic aldehyde), through primary amines or thiols on proteins, oligos, peptides, carbohydrates or surfaces. The result is two biomolecules conjugated through an UV-traceable, stable bond (bis-arylhydrazone) with measurable absorbance at 354 nm. Any two proteins can be efficiently conjugated.

Here we introduce **SoluLink's ChromaLink Biotin** containing an UV-traceable chromophore (b). Now you can measure the degree of biotinylation in minutes without the standard curves required for HABA/avidin and fluoro-reporter assays. With a simple and direct UV scan, you can quantify biotin incorporation and ensure reproducible production of consistent batches. The extended PEG3 spacer helps reduce aggregation, minimizes steric hindrance and enhances solubility (d). The amine-reactive sulfo-succinimidyl ester (a) is safe and water-soluble avoiding the use of organic solvents.



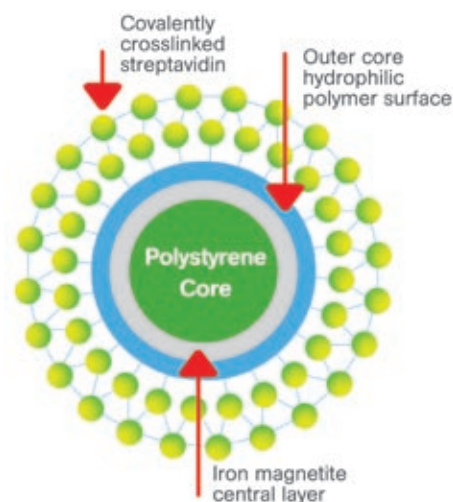
Pair ChromaLink Biotin labeling with **SoluLink's NanoLink or MagnaLink Streptavidin Magnetic Beads** or **Streptavidin Agarose Ultra Performance** for many types of assay development. SoluLink offers streptavidin magnetic beads and agarose with the highest biotin-binding capacity on the market. Higher binding translates into reduced bead mass or agarose required to immobilize a biotinylated sample and lower background noise from nonspecific binding, resulting in better signals and lower net costs.

Molecule	NanoLink (0.8 $\mu\text{m}$ ) Binding Capacity	MagnaLink (2.8 $\mu\text{m}$ ) Binding Capacity
Free biotin	>14 nmol/mg	>12 nmol/mg
Biotinylated oligo (23-mer)	>2.5 nmol/mg	>0.8 nmol/mg
Biotinylated IgG (3 biotins per IgG)	>250 nmol/mg	>112.6 nmol/mg

### Applications

- ▶ Capture, immobilization and separation of biotin-labeled biomolecules such as DNA, RNA, PCR products, oligonucleotides, peptides or antibodies
- ▶ High-throughput robotic applications
- ▶ Generation of single-stranded PCR templates that can dramatically increase hybridization efficiency to complementary probes by removal of the unbiotinylated, competing PCR strand.

**solulink**<sup>™</sup>



Use **NanoLink 4FB Magnetic Beads** or **MagnaLink 4FB Magnetic Beads** to enable easy and efficient immobilization of any biomolecule premodified with SoluLink's complementary **S-HyNic Crosslinker**. HyNic-modified peptides, oligonucleotides, and antibodies form a strong and stable conjugate bond with MagnaLink 4FB Magnetic Beads.

### Applications

- ▶ Design your own affinity purification scheme with your biomolecule of interest
- ▶ Capture, immobilization and separation of HyNic-modified biomolecules such as proteins, peptides, antibodies, DNA, RNA oligonucleotides and/or oligosaccharides

SoluLink's NanoLink and MagnaLink Magnetic Beads are 0.8 and 2.8 micron-sized, super-paramagnetic, hydrophilic, polymer-encapsulated (no exposed iron), monodispersed microspheres with a uniform size distribution and a fast (<2 min) magnetic response time. They are stable in colloidal form and in detergents.

Name	Quantity	Catalog-No.
ChromaLink Biotin Labeling Kit	5 x 1 mg	B-9007-105K5
ChromaLink One-Shot Biotinylation Kit	100 $\mu\text{g}$	B-9007-009K
High Biotin-Binding Streptavidin Agarose	2 ml	N-1000-002
MagnaLink 4FB Magnetic Beads	1 ml	M-1004-010
MagnaLink Streptavidin Magnetic Beads	1 ml	M-1003-010
NanoLink 4FB Magnetic Beads	1 ml	M-1001-010
NanoLink Streptavidin Magnetic Beads	1 ml	M-1002-010
S-HyNic Crosslinker	5 x 1 mg	S-1002-105

*SoluLink products are for German customers only.*

# Link-A-Light

## Acris' New Antibody Conjugation Kits – Quick & Easy



Here we introduce Acris Antibodies' new product line:  
Link-A-Light Conjugation Kits

Link-A-Light conjugation kits allow you to quickly conjugate antibodies for the use in multiple applications.

- ▶ Very short hands-on time (30 seconds to a few minutes)
- ▶ Reaction completed after 3 h at RT
- ▶ Useful from low amounts to bulk quantities
- ▶ No need to purify the labeled end-product

Using labeled antibodies reduces unspecific binding of secondary antibodies and the time and cost needed for your applications. Furthermore, labeled antibodies allow you to perform assays with multiple targets. These assays, e.g. co-localisation studies in IHC, were before limited due to the need for different secondary antibodies.

The labeling reaction will be completed after 3 hours at room temperature (20-25°C) but a longer incubation time will not effect the quality of the end product. You can set up reactions overnight at room temperature and use the conjugate first thing the next morning.

There is nearly no loss of antibody due to this advanced one-step procedure. Reactions are highly efficient and the kits are designed to give a low level of free label at the end of the reaction. No separation steps are required. This avoids the usual losses on columns, dilution of samples and further losses upon concentration of the material.

### Only little labeled antibody needed?

Label as low as 10 µg of antibody with Acris Antibodies Link-A-Light kits and use the residual antibody with different labels or unconjugated!

Even though our Link-A-Light kits are ideal for small amounts of antibody labeling, up-scaling is no problem. The standard packs address the need for antibody labeling to be performed on a µg to mg scale, but lyophilised material can be provided in larger quantities if necessary.



Special introductory offer:  
Receive 20% discount\* on all Link-A-Light products until December 31<sup>st</sup>, 2011!

Name	Quantity	Catalog-No.
<b>Link-A-Light AP Conjugation Kit</b>		
	3 x 10 µg	AC002-001
	1 x 100 µg	AC002-002
	3 x 100 µg	AC002-003
	1 mg	AC002-004
<b>Link-A-Light Biotin Conjugation Kit</b>		
Type A	20 µg Ab*	AC043-001
Type A	200 µg Ab*	AC043-002
Type A	2 mg Ab*	AC043-003
Type B	20 µg Ab*	AC044-001
Type B	200 µg Ab*	AC044-002
Type B	2 mg Ab*	AC044-003
<b>Link-A-Light Fluorescein Conjugation Kit</b>		
	10 - 20 µg Ab*	AC007-001
	100 - 200 µg Ab*	AC007-002
	1 - 2mg Ab*	AC007-003
<b>Link-A-Light HRP Conjugation Kit</b>		
	3 x 10 µg	AC001-001
	1 x 100 µg	AC001-002
	3 x 100 µg	AC001-003
	1 x 1 mg	AC001-004
	5 x 1 mg	AC001-005
	5 mg	AC001-006
<b>Link-A-Light R-Phycoerythrin (R-PE) Conjugation Kit</b>		
	3 x 10 µg	AC004-001
	1 x 100 µg	AC004-002
	3 x 100 µg	AC004-003
	1 mg	AC004-004

\* Antibody scale

\*Does not apply to bulk orders. No additional discounts apply.

Have a look at [www.acris-antibodies.com](http://www.acris-antibodies.com) for our full range of conjugation kits.

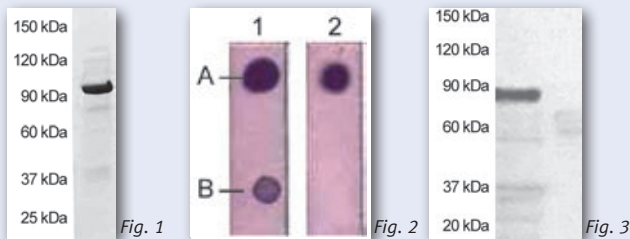
# New Partner Companies

## Specialized on Phosphospecific Antibodies

Phosphorylation and dephosphorylation of cellular proteins are central steps in transducing extracellular signals to the cell nucleus. Phosphorylated epitopes may serve as docking sites for the assembly of protein complexes or may alter the three-dimensional protein structure thus modulating enzymatic activity or the ability to undergo protein-protein interactions. Acris Antibodies extends to the field of phosphospecific antibodies and introduces two new partner companies to the European market, which are focused on a great panel of phosphospecific antibodies: [AbboMax](#) and [Assay Biotech](#)



The mission of AbboMax is to provide the highest quality of customer services and products to customers with the shortest lead-time. Their goals are described as to build on their strengths of quality, innovation and competitiveness.



**Fig. 1:** Western blot: GH-stimulated mouse liver immunoblotted by STAT1 (pTyr701) antibody Cat.-No. 620-160

**Fig. 2:** Dot blot: 1 mg peptide was blotted onto NC membrane: A) STAT1 (pTyr701) (phosphospecific), B) STAT1 (non phosphospecific); blotted by: 1) STAT1 antibody Cat.-No: 620-170, 2) STAT1 antibody (phosphospecific) Cat.-No. 620-160

**Fig. 3:** Western blot: GH-stimulated mouse liver immunoblotted by STAT5 (pTyr694) antibody Cat.-No. 500-9334 (lane 1). Lane 2 is a negative control

The table below shows a selection of AbboMax' antibodies. Please refer to [www.acris-antibodies.com](http://www.acris-antibodies.com) to find more.

Name	Reactivity	Application	Catalog-No.
AKT1/PKB pThr308	Hu, Ms, Rt	E, IP, WB	600-210
AKT1/PKB pSer473	Hu, Ms, Rt	E, IP, WB	600-220
Catenin $\beta$ -1 pSer675	Hu, Ms, Rt	IP, WB	500-8864
IRAK4 pThr345	Bov, Can, Hu, Ms	E, WB	600-560
JAK2 pTyr1007/8	Hu	IP, WB	620-150
<a href="#">STAT1 pTyr701</a>	<a href="#">Hu, Ms, Rt</a>	<a href="#">E, IP, WB</a>	<a href="#">620-160</a>
STAT3 pSer727	Hu, Ms, Rt	E, IP, P, WB	500-12044
STAT3 pTyr705	Hu, Ms	E, IP, P	500-12054
STAT4 pTyr693	Hu, Ms	E, IP, P	500-12064
<a href="#">STAT5/5A pTyr694</a>	<a href="#">Hu, Ms, Rt</a>	<a href="#">IP, WB</a>	<a href="#">500-9334</a>
STAT6 pTyr641	Hu, Ms	E, P	500-12104

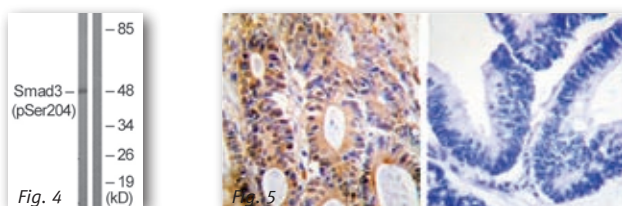
Bov: Bovine, Can: Canine, Hu: Human, Ms: Mouse, Rt: Rat

E: ELISA, IP: Immunoprecipitation, P: Paraffin sections, WB: Western blot



Assay Biotechnology Company, Inc. offers over 5,000 validated, pre-made antibodies for the field of cellular regulatory events including signal transduction, enzyme receptor activation, phosphorylation-modulated transcription, and cell signaling events, including a selection of

- ▶ phosphospecific antibodies
- ▶ isoform and modification-specific antibodies, including acetyl-specific and cleavage-specific antibodies
- ▶ antibodies against ion channels, transmembrane proteins, and receptors, featuring a wide array of G-protein coupled receptor (GPCR) antibodies



**Fig. 4:** Western blot analysis of extracts from NIH-3T3 cells treated with serum 20% 15', using SMAD3 (pSer204) antibody Cat.-No. A1004-2 (right lane is treated with synthesized peptide)

**Fig. 5:** Immunohistochemistry analysis of formalin-fixed, paraffin-embedded (FFPE) human colon carcinoma tissue using SMAD3 antibody Cat.-No. B1004-2 (right picture is treated with the synthesized peptide)

Antibodies are developed and produced at Assay Biotechnology using synthetic peptide immunogens:

- ▶ purified by affinity chromatography using epitope-specific immunogens
- ▶ antibody validation using a combination of western blot, ELISA, IHC and immunofluorescence
- ▶ blocking by immunogen peptide and validated in two or more applications before being included in the product line
- ▶ validation steps are carried out using whole cell lysates and paraffin-embedded tissue, no over-expressed or pure protein

Name	Reactivity	Application	Catalog-No.
AKT/PKB (pTyr474)	Hu, Ms, Rt	E, P, WB	A0607-2
AKT/PKB (C-term)	Hu, Ms, Rt	E, P, WB	B7004-2
MAPK3K1 (pThr1402)	Hu, Ms, Rt	E, P, WB	A8129-2
<a href="#">SMAD3 (pSer204)</a>	<a href="#">Hu, Ms, Rt</a>	<a href="#">E, WB</a>	<a href="#">A1004-2</a>
<a href="#">SMAD3</a>	<a href="#">Hu, Ms, Rt</a>	<a href="#">E, P, WB</a>	<a href="#">B1004-2</a>

Hu: Human, Ms: Mouse, Rt: Rat

E: ELISA, P: Paraffin sections, WB: Western blot

# Monospecific Rabbit Clonal Antibodies

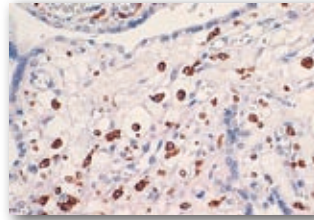
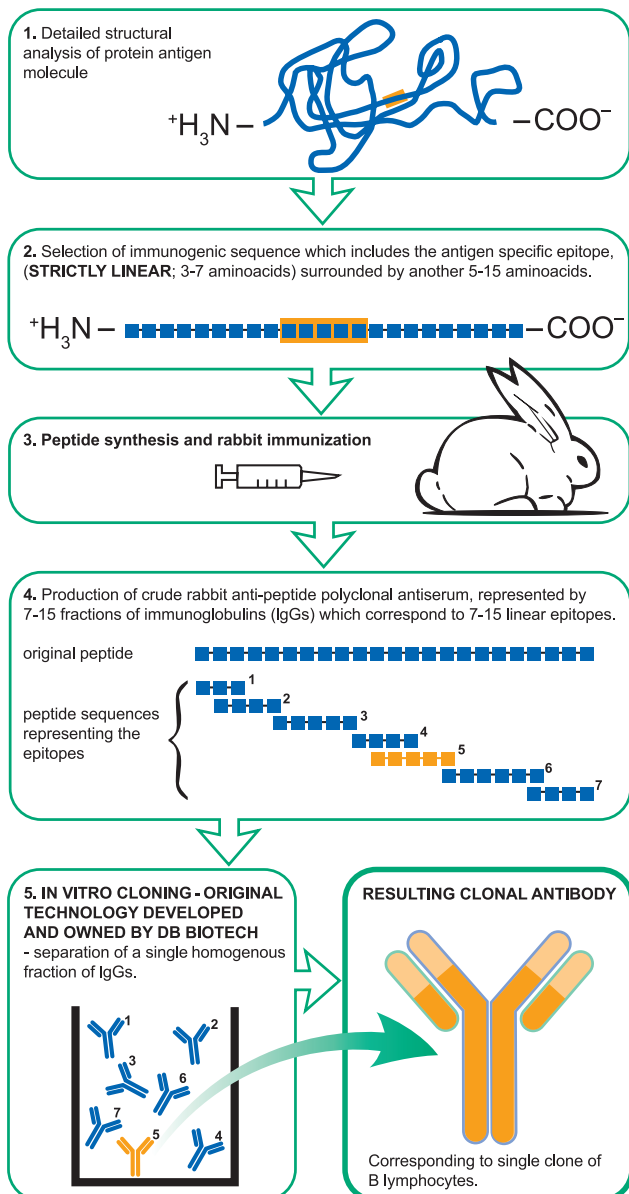
## Highest Specificity, Affinity and Avidity



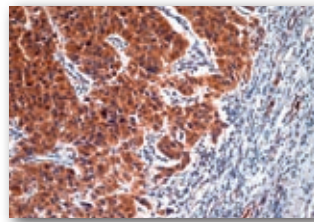
DB Biotech is focused on the design and production of high quality monospecific rabbit clonal antibodies.

A novel 'in vitro cloning technology' developed by DB Biotech enables the preparation of a pure immunoglobulin fraction corresponding to a single clone of B lymphocytes. The obtained immunoglobulin recognizes one single linear epitope on the antigen molecule.

The scheme below outlines the production of DB Biotech's rabbit clonal antibodies:



**Fig. 6:** Human placenta (FFPE) stained with CD163 antibody Cat.-No. DB 045 shows strong positive cytoplasmic immunostaining of monocytes and macrophages



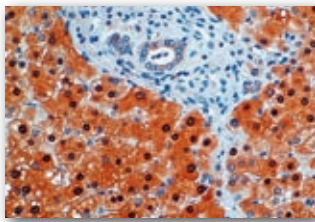
**Fig. 7:** Human renal cell carcinoma (FFPE) stained with CD205 antibody Cat.-No. DB 044 shows strong positive immunostaining of tumor cells

DB Biotech's clonal rabbit antibodies are monospecific such as monoclonal antibodies. The principal difference between these two types of antibodies is that the clonal antibodies recognize solely very specifically selected linear epitopes on the antigen molecule. The monoclonal antibodies in contrast recognize very often steric epitopes that frequently change their conformation during tissue preparation, protein extraction, etc., making the corresponding monoclonal antibody unspecific, less avid and in extreme cases not functional.

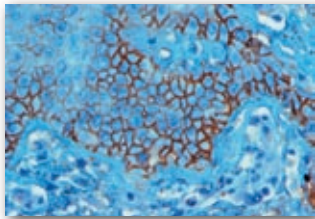


# Monospecific Rabbit Clonal Antibodies

## Highest Specificity, Affinity and Avidity (Continued)



**Fig. 8:** Human liver tissue (FFPE) stained with NOS2 antibody  
**Cat.-No. DB 003-IHC** shows strong positive immunostaining of hepatocytes.



**Fig. 9:** Human skin biopsy (FFPE) from lesion of the early pemphigus vulgaris (without blister formation) stained with C3d complement antibody **Cat.-No. DB 106** shows strong positive intraepidermal intercellular immunostaining

Find all DB Biotech monospecific rabbit clonal antibodies at [www.acris-antibodies.com](http://www.acris-antibodies.com).

Please have a look at our selected DB Biotech monospecific rabbit clonal antibodies. For each catalog number, different sizes are available.

Name	Clone	Reactivity	Appl.	Catalog-No.
CD20	E17-P	Hu	P	DB 041
CD163	K20-T	Hu	P	DB 045
CD205	R18-D	Hu	P	DB 044
Complement C3	E28-P	Hu	C, P	DB 106
Kappa Light Chain	A21-Y	Hu	P	DB 037
Lambda Light Chain	K22-Y	Hu	P	DB 039
Metallothionein	N11-G	Hu	E, WB	DB 014
NOS2	K13-A	Hu, Ms, Rt	E, IP, WB	DB 003
NOS2	K13-A	Hu, Ms, Rt	C, P	DB 003-IHC
PRKCG	A12-H	Hu, Ms, Rt	E, IP, WB	DB 008

Hu: Human, Ms: Mouse, Rt: Rat

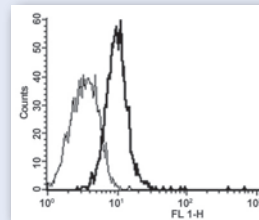
C: Frozen sections, E: ELISA, IP: Immunoprecipitation, P: Paraffin sections, WB: Western blot

## Acris Antibodies Has Licensed Famous B-Clones Functional Assays & Flow Cytometry

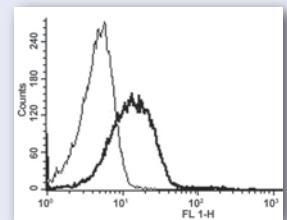
B-clones developed in France target mostly CD antigens and cytokines and are described in the literature for their ability to trigger or to block protein function. These clones are now available in an azide free format for neutralizing, enhancing or agonistic functional assays.

Many of the clones have also been tested for flow cytometry and are available conjugated for this application.

The table below outlines some CD antibodies with well-established effects in functional assays.



**Fig. 10:** Typical staining pattern with the CD130 (clone B-S12) monoclonal antibody **Cat.-No. AM31178AF-N** of Eahy 926 cell line



**Fig. 11:** Typical staining pattern with the CD102 (clone B-T1) monoclonal antibody **Cat.-No. AM31349AF-N** of lymphocytes

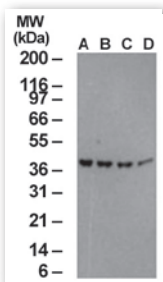
Name	Clone	Biological effects	Catalog-No. ( anti-Human; Azide free)
CD95	B-G27	Triggers FAS induced apoptosis	AM31195AF-N
	B-D29	Inhibits FasL induced apoptosis	AM31196AF-N
CD102	B-T1	Inhibits cell adhesion and T cell activation	AM31349AF-N
CD106	B-K9	Inhibits cell attachment to VCAM-1	AM31190AF-N
CD130	B-K5	Inhibits CNTF activity. Inhibits OSM binding to gp130	AM31174AF-N
	B-R3	Inhibits IL-6, IL-11, CNTF, LIF and OSM activities	AM31350AF-N
	B-P4	Inhibits IL-11 activity and binding to gp130, but not CNTF, LIF and OSM activities.	AM31176AF-N
	B-P8	Inhibits CNTF activity and binding to gp130. Induces gp130 activation	AM31175AF-N
	B-S12	Activates cells carrying gp130. Induces gp130 activation, Jak 1, Jak 2, Stat 1 and Stat 3 phosphorylation	AM31178AF-N
CD184	B-R24	Inhibits HIV-1 infection	AM31204AF-N
CD253	B-T24	Inhibits TRAIL induced apoptosis	AM31200AF-N
CD262	B-D37	Agonist: induced apoptosis on Jurkat cells. Enhances TRAIL induced apoptosis of U937 cell line	AM31205AF-N
	B-K29	Neutralizes TRAIL induced apoptosis of U937 cell line	AM31206AF-N
CD263	B-D44	Inhibits TRAIL binding to TRAIL R3	AM31207AF-N

# Loading Control Antibodies

## Have a Close Look at Your Cell's Housekeeping

Western blot analysis can be used for (semi-)quantitative detection of target proteins, especially concerning experimental procedures which lead to altered expression levels of the target protein. To compare the effect of different treatments on the target protein a method to standardize the amount of total protein loaded per lane and to confirm that equal amounts were loaded in each lane of the gel is needed. For this purpose so called 'housekeeping' proteins are selected as controls. The loading control ideally should not show an altered expression level during the course of the experiment so one has to carefully choose the appropriate loading control for each experimental setup. Proteins selected as loading controls are often of fundamental importance in maintaining basic cellular functions.

**Beta actin (ACTB)** is a highly conserved protein that is involved in cell motility, structure and integrity. Beta actin is a cytoplasmic protein ubiquitously expressed in all eukaryotic cells and therefore often used as a loading control.



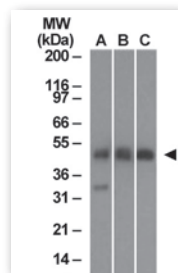
**Fig. 12:** Western blot analysis of beta actin in decreasing amounts of human ovary tissue lysate using *Cat.-No. AP21589PU-N*: A) 40 µg, B) 30 µg, C) 20 µg, and D) 10 µg per lane

Heterodimers consisting of alpha- and beta-tubulin form microtubules of the eukaryotic cytoskeleton. **Tubulin beta5 (TUBB5)** and **tubulin alpha (1B chain/TUBA1B)** are ubiquitously expressed in all eukaryotic cells representing a good choice as loading controls for cells of multiple origins. Most available antibodies to tubulins are reactive on nearly all species tested so far.

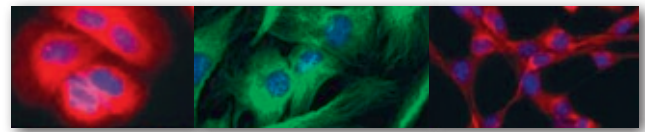
**Class III beta tubulin (TUBB3/TUBB4)** is a vertebrate tubulin isotype only found in neurons which can be used as a loading control for neuronal samples.



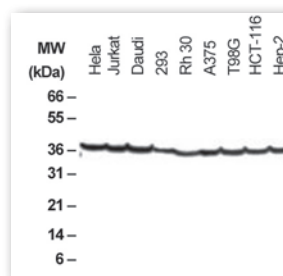
**Fig. 13:** Western blot using alpha tubulin antibody *Cat.-No. AP09289PU-N*; Lanes correspond to whole cell lysates from mouse brain (lane 1), rat brain (lane 2), A431 cells (lane 3), Jurkat cells (lane 4) and HeLa cells (lane 5)



**Fig. 14:** Western blot analysis of beta tubulin (arrowhead) in A: human brain, B: mouse brain and C: rat brain tissue lysates using *Cat.-No. AP21644PU-N*



**Glyceraldehyde 3 phosphate dehydrogenase (GAPDH)** is well known as one of the key enzymes involved in glycolysis. GAPDH, which is constitutively expressed in almost all tissues at high levels, is suitable as an excellent loading control.



**Fig. 15:** Total proteins from various human cell lysates were normalized using the GAPDH monoclonal antibody *Cat.-No. SM7116P*

Name	Reactivity	Application	Catalog-No.
Actin beta /ACTB	Broad	IF, P, WB	AM00194PU-N
	All Species	IF, WB	AM20709PU-N*
	Hu, Ms, Rt	E, IF, WB	AP30136PU-N
	Bov, Hu, Ms, Rt	WB	AP21589PU-N*
	Hu, Ms, Rb	WB	AP00310PU-N
	Hu	E, P, WB	AP09293PU-N
	Broad	P, WB	AP15333PU-S*
GAPDH	Broad	E, IF, WB	ACR001P
	Broad	IF, WB	SM7116P*
	Hu	E, IF, WB	AM09367PU-N*
	Hu	E, IF, WB	AM20781PU-N*
	Hu, Broad	E, IF, P, WB	AP09372PU-N
	Broad	WB	AP21839PU-N*
TUBA1B	All Species	C, E, IF, IP, P, WB	SM3001P
	All Species	C, E, IF, IP, WB	BM753*
	Av, Hu, Mam	E, WB	AP09289PU-N
TUBB/TUBB5	Hu, Mky, Ms, Rt	E, IF, WB	AM20777PU-N*
	Broad	IF, WB	AM20708PU-N*
	All Species	IF, IP, WB	BM169S
	All Species	IP, P, WB	AP15841PU-N*
	Broad	P, WB	AP21644PU-N*
TUBB3/TUBB4	Broad	C, E, F, IF, P, WB	BM170S*
VDAC	Broad	WB	AP00265PU-N
	Hu, Rt	IP, WB	SP5361P
	Broad	E, WB	AP09290PU-N

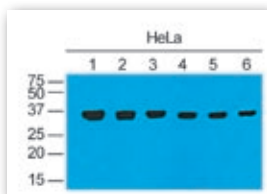
Bov: Bovine, Broad: see data sheet for details, Hu: Human, Mky: Monkey, Mam: Mammalia, Ms: Mouse, Rb: Rabbit, Rt: Rat

C: Immunohistochemistry on frozen sections, E: ELISA, F: Flow cytometry, IF: Immunofluorescence, IP: Immunoprecipitation, P: Immunohistochemistry on formalin-fixed, paraffin-embedded tissue sections, WB: Western blot

\* Various package sizes are available

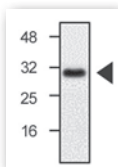
# Loading Controls

## Cell's Housekeeping (Continued)



**Fig. 16:** Western blot analysis: Cell lysates of HeLa were probed with GAPDH antibody Cat.-No. AM09367PU-N; Lane 1: 1:1,000, lane 2: 1:2,000, lane 3: 1:4,000, lane 4: 1:6,000, lane 5: 1:8,000, lane 6: 1:10,000

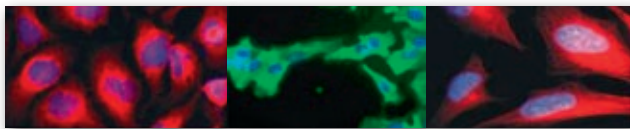
**Voltage-dependent anion-selective channel protein 1 (VDAC)** is an outer membrane mitochondrial protein and is highly expressed in heart, liver and skeletal muscle, where concentrations of mitochondria are at their highest. VDAC can be used as a loading control with mitochondrial preparations as well as whole cell lysates.



**Fig. 17:** Western blot analysis of VDAC/porin Cat.-No. AP00265PU-N with 3T3 cell lysate

### Antibody tools for the detection of loading controls

Acris Antibodies offers a wide range of antibodies to proteins which are suitable for use as loading controls. The table on page 7 shows a selection of our recommended antibodies.



### Europe / International

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# Neuroscience Views



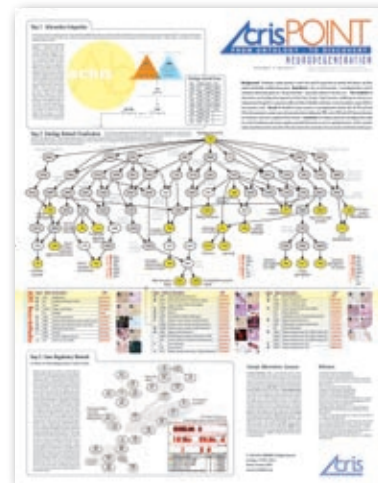
### FocusOns

Refer to [www.acris-antibodies.com](http://www.acris-antibodies.com) and our FocusOn antibody panels for a comprehensive listing of our products for neuroscience:

- FocusOn 130: Antibodies for Alzheimer's Disease
- FocusOn 131: Antibodies for Parkinson's Disease
- FocusOn 132: Antibodies for Huntington's Disease
- FocusOn 133: Antibodies for Amyotrophic Lateral Sclerosis

### Neurodegeneration Poster

Acris Antibodies new Neurodegeneration Poster shows an innovative approach using Panther and KEGG data bases to identify 37 genes common to Alzheimer's, Huntington's and Parkinson's diseases and evolutionary conserved regulatory regions in their promoters. A limited set of upstream promoters controls expression of these genes, indicating a few regulatory hotspots exert broad control over a host of neurodegenerative diseases. Order your free printed copy of our Neurodegeneration Poster and learn more about our findings and how these genes can be classified into three specific cellular functions.



Please explore our comprehensive panel of antibodies at [www.acris-antibodies.com](http://www.acris-antibodies.com)

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