

## OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850 UNITED STATES Phone: +1-888-267-4436 Fax: +1-301-340-8606 techsupport@origene.com OriGene Technologies GmbH

Schillerstr. 5 32052 Herford GERMANY Phone: +49-5221-34606-0 Fax: +49-5221-34606-11 info-de@origene.com

BA1011	Standard Bovine GFAP
Alternate names:	Glial Fibrillary Acidic Protein
Quantity:	0.25 mg
Concentration:	1.0 mg/ml
Background:	Glial fibrillary acidic protein (GFAP) is a member of the class III intermediate filament protein family. It is heavily, and specifically, expressed in astrocytes and certain other astroglia in the central nervous system, in satellite cells in peripheral ganglia, and in non myelinating Schwann cells in peripheral nerves. In addition, neural stem cells frequently strongly express GFAP. Antibodies to GFAP are therefore very useful as markers of astrocytic cells. In addition many types of brain tumor, presumably derived from astrocytic cells, heavily express GFAP. GFAP is also found in the lens epithelium, Kupffer cells of the liver, in some cells in salivary tumors and has been reported in erythrocytes.
Uniprot ID:	<u>Q28115</u>
NCBI:	<u>NP_776490.2</u>
GenelD:	<u>281189</u>
Species:	Bovine
Source:	Spinal Cord, Bovine spinal cord
Format:	State: Lyophilized Purity: >98% (determined by SDS gelelectrophoresis). Buffer System: Final Solution contains 10mM Sodium Phosphate buffer pH 7.5, 6M Urea, 2mM DTT, 1 mM EDTA, 10mM Methylammonium Chloride Reconstitution: Restore with distilled water. BA1011S: 80 μl (final volume 100 μl). BA1011 : 200 μl (final volume 250 μl).
Applications:	Protein standard in 1D and 2D SDS gelelectrophoresis. Immunoassays. Immunization. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Description:	Bovine Glial Filament Protein (GFP) <b>Molecular weight:</b> 52 kDa
Add. Information:	Isoelectric Point: pl 5.4
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store the protein undiluted at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.

	BA1011: Standard Bovine GFAP
General Readings:	1. Dahl D, Crosby CJ, Gardner EE, Bignami A. Purification of the glial fibrillary acidic protein by anion-exchange chromatography. Anal Biochem. 1982 Oct;126(1):165-9. PubMed PMID: 7181107. 2. Hatzfeld M and Franke WW (1985). J Cell Biol 101, 1826-1841 3. Hatzfeld M et al. (1987). J Mol Biol 197, 237-255
Protocols:	<b>Reconstitution to Filaments</b> is performed by dissolving in 6 M urea buffer (see above) at concentrations of approx. 0.5 mg/ml. Protofilaments and filament complexes are obtained by dialyzing the resulting polypeptide solution stepwise to a concentration of 4 M urea and then to low salt condition (50 mM NaCl, 2 mM dithiothreitol, 10 mM Tris-HCl, pH 7.4). For immunization purposes, the solution can be further dialyzed against PBS (phosphate buffered saline, e.g. Dulbeccos PBS).
Pictures:	Lane 1: Myosin (a), beta-galactosidase (b), Phosphorylase (c), BSA (d), Ovalbumin (e). Lane 2: GFP b c

d

е

1

2

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.