OriGene Technologies Inc.

9620 Medical Center Drive, Ste 200
Rockville, MD 20850
UNITED STATES
Phone: +1-858-888-7900
Fax: +1-858-888-7904
US-info@acris-antibodies.com

OriGene EU

Acris Antibodies GmbH
Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info@acris-antibodies.com

Polyclonal Antibody to HA Epitope Tag (YPYDVPDYA) - DyLight488

Alternate names: HA Tag, HA-Tag, Hemagglutinin Tag

Catalog No.: AP09230DL5-N

Quantity: 0.1 mg

Concentration: 1.0 mg/ml (by UV absorbance at 280 nm)

Background: Epitope tags are short peptide sequences that are easily recognized by tag-specific antibodies. Due to their small size, epitope tags do not affect the tagged protein's biochemical properties. Most often sequences encoding the epitope tag are included with target DNA at the time of cloning to produce fusion proteins containing the epitope tag sequence. This allows anti-epitope tag antibodies to serve as universal detection reagents for any tag containing protein produced by recombinant means. This means that anti-epitope tag antibodies are a useful alternative to generating specific antibodies to identify, immunoprecipitate or immunoaffinity purify a recombinant protein. The antiepitope tag antibody is usually functional in a variety of antibody-dependent experimental procedures. Expression vectors producing epitope tag fusion proteins are available for a variety of host expression systems including bacteria, yeast, insect and mammalian cells.

Host / Isotype: Rabbit / IgG

Immunogen: Synthetic peptide corresponding aa 114-122 of Hemagglutinin Influenza conjugated to KLH using maleimide.
AA Sequence:
Y-P-Y-D-V-P-D-Y-A-G
Remarks: Conjugation Chemistry: N-hydroxysuccinimide (NHS) ester

Format: **State:** Lyophilized purified Ig fraction.
Purification: Affinity Chromatography.
Buffer System: 0.02M Potassium Phosphate, 0.15M Sodium Chloride, pH 7.2; 10 mg/ml BSA (IgG and Protease free) as stabilizer and 0.01% (w/v) Sodium Azide as preservative.
Label: DyLight488 – DyLight(TM) 488 (MW 1,011.20)
Molar Ratio: 4.0 DyLightTM 488 per mole of Rabbit IgG
Reconstitution: Restore with 0.1 ml of deionized water (or equivalent).

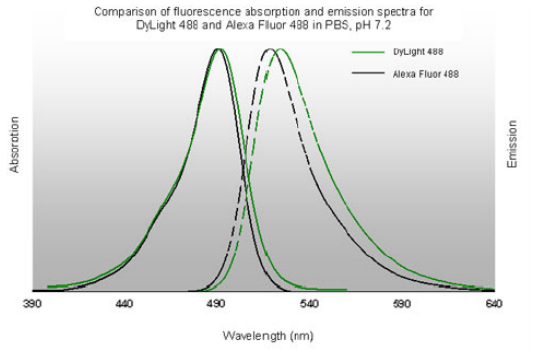
Applications: ELISA (FLISA): › 1/20,000.
Western blot: 1/00,000-1/25,000.
Immunoflourescence: › 1/5,000.
This antibody is also suitable for multiplex analysis, including multicolor imaging, utilizing various commercial platforms.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody is directed against the HA epitope tag and is useful in determining its presence in over expressed proteins in various assays.
The antibody recognizes the HA epitope tag (Tyr-Pro-Tyr-Asp-Val-Pro-Asp-Tyr-Ala-Gly) fused to either the amino- or carboxy- termini of targeted proteins in transfected or transformed cells.

Add. Information: Instrument compatibility: The emission spectra for this DyLightTM conjugate match the principal output wavelengths of most common fluorescence instrumentation.

Storage: Store vial at 2-8°C prior to restoration. Following restoration product can be stored undiluted at 2-8°C for one month or (in aliquots) at -20°C or below.
Avoid repeated freezing and thawing. Centrifuge product if not completely clear after standing at room temperature.
Shelf life: One year from despatch.

Pictures: DyLightTM 488 Fluorescence Spectra.



Properties of DyLightTM Fluorescent Dyes.

Emission	Color	DyLight™ Dye	Ex/Em (nm)	ε (M^{-1} cm^{-1})	Similar Dyes
Green		**488**	**493/518**	**70,000**	**Alexa™ 488, Cy2®, FITC**
Yellow		549	550/568	150,000	Alexa™ 546, Alexa 555, Cy3®,TRITC
Red		649	646/674	250,000	Alexa™ 647, Cy5®
Near Infrared		680	682/715	140,000	Alexa™ 680, Cy5.5®, IRDye™ 700
Infrared		800	770/794	270,000	IRDye™ 800