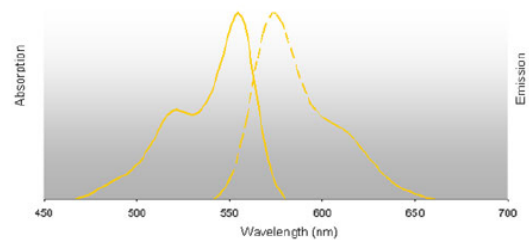


Polyclonal Antibody to HA Epitope Tag (YPYDVPDYA) - DyLight549






Alternate names:	HA Tag, HA-Tag, Hemagglutinin Tag
Catalog No.:	AP09230DL6-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 anti-epitope 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 Ig fraction Purification: Affinity chromatography Buffer System: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2; 10 mg/ml BSA, IgG and Protease free; 0.01% (w/v) Sodium Azide Label: DyLight549 – DyLight™ 549 (MW 981.85) <i>Absorption / Emission:</i> 550 nm (in PBS) / 568 nm (in PBS) <i>Molar Ratio:</i> 3.6 DyLight™ 549 per mole of Rabbit IgG Reconstitution: Rehydrate with 0.1 ml of deionized water (or equivalent).
Applications:	Flourescent Western blot: > 1:20,000. ELISA (FLISA): > 1:10,000. 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 DyLight™ 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 ° for up to 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:** DyLight™ 549 Fluorescence Spectra.

Fluorescence absorption and emission spectra of DyLight 549 in PBS, pH 7.2



Properties of DyLight™ 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™ 548, 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