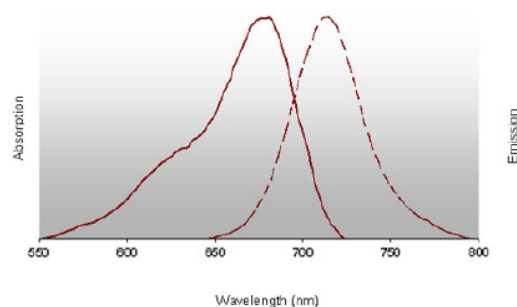


## Polyclonal Antibody to HA Epitope Tag (YPYDVPDYA) - DyLight680

<b>Alternate names:</b>	HA Tag, HA-Tag, Hemagglutinin Tag
<b>Catalog No.:</b>	AP09230DL8-N
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	1.0 mg/ml (by UV absorbance at 280 nm)
<b>Background:</b>	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.
<b>Host / Isotype:</b>	Rabbit / IgG
<b>Immunogen:</b>	Synthetic peptide corresponding aa 114-122 of hemagglutinin influenza conjugated to KLH using maleimide <b>AA Sequence:</b> Y-P-Y-D-V-P-D-Y-A-G <b>Remarks:</b> Conjugation Chemistry: N-hydroxysuccinimide (NHS) ester
<b>Format:</b>	<b>State:</b> Lyophilized Ig fraction <b>Purification:</b> Affinity chromatography <b>Buffer System:</b> 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 <b>Label:</b> DyLight680 – DyLight™ 680 (MW 950) <i>Absorption / Emission:</i> 682 nm (in PBS) / 715 nm (in PBS) <i>Molar Ratio:</i> 2.8 DyLight™ 680 per mole of Rabbit IgG <b>Reconstitution:</b> Rehydrate with 0.1 ml of deionized water (or equivalent).
<b>Applications:</b>	Flourescent Western blot: > 1:20,000. ELISA (FLISA): > 1:10,000. Immunoflourescence: > 1:5,000. 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.
- Storage:** Store vial at 2-8 °C prior to restoration. Following restoration product can be stored undiluted at 2-8 °C 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™ 680 Fluorescence Spectra

Fluorescence absorption and emission spectra of DyLight 680 in PBS, pH 7.2



#### Properties of DyLight™ Fluorescent Dyes

Emission	Color	DyLight™ Dye	Ex/Em (nm)	$\epsilon$ (M <sup>-1</sup> cm <sup>-1</sup> )	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