

OriGene Technologies Inc.

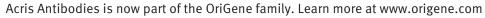
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R1181DL7 OriGene EU

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	Polyclonal Antibody to 6xHistidine Epitope Tag
	(HHHHHH) - DyLight649
Alternate names:	6xHis-Tag, HHHHHH Tag, HIS6 Tag, His Tag
Catalog No.:	R1181DL7
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 proteins biochemical properties. Most often, sequences encoding the epitope tag are included wi 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 reagen 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 identi immunoprecipitate or immunoaffinity purify a recombinant protein. The anti-epitope tag antibody is usually functional in a variety of antibody-dependent experimental procedure Expression vectors producing epitope tag fusion proteins are available for a variety of ho expression systems including bacteria, yeast, insect and mammalian cells.
Host:	Rabbit
Immunogen:	6X His epitope tag peptide H-H-H-H-H conjugated to KLH using maleimide.
Format:	State: Lyophilized purified lg fraction. Purification: Affinity Chromatography.
	 Buffer System: 0.02M Potassium Phosphate, 0.15M Sodium Chloride, pH 7.2 containing mg/ml BSA as stabilizer and 0.01% (w/v) Sodium Azide as preservative. Label: DyLight649 – DyLight(TM) 649 (MW 1,008.02) Absorption / Emission: 646 nm / 674 nm
	Molar Ratio: 1.8 moles DyLight(TM) 649 per mole of Rabbit IgG
	Reconstitution: Restore with 0.1 ml of deionized water (or equivalent).
Applications:	Suitable for monitoring expression of His-tagged fusion proteins. This antibody has been tested by ELISA and western blotting against both the immunizing peptide and His- containing recombinant proteins. Although not tested, this antibody is likely functional f Immunoprecipitation and Immunocytochemistry. <u>Recommended Dilutions:</u> Western Blot: > 1/20,000. ELISA: >1 /10,000. Immunofluorescence: > 1/5,000.
	Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

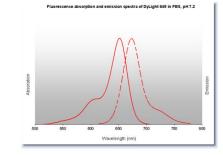
For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.





OG/20130514

	R1181DL7: Polyclonal Antibody to 6xHistidin	e Epitope Tag (HHHHHH) - DyLight649				
Specificity:	This ployclonal anti-6X His tag antibody is directed against the 6X HIS epitope tag and is useful in determining its presence in over expressed proteins in various assays. The antibody recognizes the 6X HIS epitope tag (His-His-His-His-His) fused to either the amino- or carboxy- termini of targeted proteins in transfected or transformed cells.					
Add. Information:	The emission spectra for this DyLight™ conj of most common fluorescence instrumentati	ugate match the principle output wavelengths on.				
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.					
General Readings:	1. Bayer & Wilchek, Methods in Enzymology,	184; 138-160, 1990 (Conjugation).				
Pictures:	DyLight(TM) dyes can be used for two- color Western Blot detection with low background and high signal. Anti-tubulin was detected using a DyLight(TM)549 conjugate. Anti-TNFalpha was detected using a DyLight(TM) 649 conjugate. The image was captured using the Typhoon(TM)9410 Imaging System.	Lnpnluu 25 ng 6 ng 7 ng 26 ng 6 ng 6 ng 7 ng 26 ng 6 ng 7 ng 26 ng 27 ng 26 ng				
		DyLight™ 649 Fluorescence Spectra:				



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Emission	Color	DyLight™ Dye	Ex/Em (nm)	ε (M ⁻¹ cm ⁻¹)	Similar Dyes
Blue		405	400/420	30,000	Alexa™ 405, Cascade Blue
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



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