

## Polyclonal Antibody to 6xHistidine Epitope Tag (HHHHHH) - IRDYE800

<b>Alternate names:</b>	6xHis-Tag, HHHHHH Tag, HIS6 Tag, His Tag
<b>Catalog No.:</b>	R1181D8
<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 proteins 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.
<b>Host:</b>	Rabbit
<b>Immunogen:</b>	6X His epitope tag peptide H-H-H-H-H conjugated to KLH using maleimide
<b>Format:</b>	<b>State:</b> Lyophilized purified Ig <b>Buffer System:</b> 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 containing 10 mg/ml BSA and 0.01% (w/v) Sodium Azide <b>Label:</b> IRDYE800 – IRDye® 800 (MW 1166.2) <i>Absorption / Emission:</i> 774 nm / 800 nm <i>Molar Ratio:</i> 2,7 moles IRDye® 800 per mole of Rabbit IgG <b>Reconstitution:</b> Restore with 0.1 ml of deionized water (or equivalent).
<b>Applications:</b>	LI-COR Odyssey(R) BLOT: 1/5,000 - 1/25,000. LI-COR In-Cell Western(R). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody is directed against the 6X His motif.
<b>Storage:</b>	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.
<b>General Readings:</b>	Bayer & Wilchek, Methods in Enzymology, 184; 138-160, 1990.

**Pictures:**

IRDye(R)800 Conjugated Affinity Purified Rabbit anti-6X HIS EPI TOPE TAG polyclonal antibody detects Histagged recombinant protein (arrowhead) by western blot. The antibody recognizes the 6X His tag fused either to the amino- or carboxytermini of targeted proteins. A 4-20% gradient gel was used to resolve the protein by SDS-PAGE. The protein was transferred to nitrocellulose using standard methods. After blocking, the membrane was probed with a 1:5,000 dilution of the antibody for 1 h at room temperature. LICORs Odyssey(R) Infrared Imaging System was used to scan and process the image.

