

Product datasheet for **R1181B**

6xHistidine Epitope Tag (HHHHHH) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	Anti-6X His is optimally suited for monitoring expression of His-tagged fusion proteins. As such, anti-6X His/6X His can be used to identify fusion proteins containing the 6X His epitope. 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 for Immunoprecipitation and Immunocytochemistry. Recommended Dilutions: ELISA: 1/10,000-1/50,000. Western blot: 1/2,000-1/10,000. Immunohistochemistry: 1/1,000-1/5,000.
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	6X His epitope tag peptide H-H-H-H-H-H conjugated to KLH using maleimide
Specificity:	This affinity purified antibody is directed against the 6X His motif and is useful in determining its presence in various assays. This polyclonal anti-6X His-tag antibody detects over-expressed proteins containing the 6X His epitope tag. To date, this antibody has reacted with all His-tagged proteins tested. In Western blotting of bacterial extracts, the antibody does not cross-react with endogenous proteins. The antibody recognizes the His-tag (<i>His-His-His-His-His-His</i>) fused to either the amino- or carboxy- termini of targeted proteins in transfected or transformed cells.
Formulation:	0.02M Potassium Phosphate, 0.15M Sodium Chloride, pH 7.2 Label: Biotin State: Lyophilized purified Ig fraction Stabilizer: 10 mg/ml BSA Preservative: 0.01% (w/v) Sodium Azide Label: Biotinamidocaproate N-Hydroxysuccinimide Ester (BAC) Molar ratio: 10-20 BAC molecules per Rabbit IgG molecule



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Reconstitution Method:	Restore with 0.1 ml of deionized water (or equivalent). For extended storage, mix with Glycerol to 50% final
Concentration:	lot specific
Purification:	Affinity Chromatography
Conjugation:	Biotin
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.
Stability:	Shelf life: one year from despatch.
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 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.

Product images:



Anti-6X His epitope tag polyclonal antibody detects His-tagged recombinant proteins by western blot. Polyclonal Rabbit-anti-6X His epitope tag at 0.5-1.0 g/ml was used to detect 1.0 g of recombinant protein containing the His epitope tag. A 4-20% gradient