

Polyclonal Antibody to 6xHistidine Epitope Tag (HHHHHH) - Aff - Purified

Alternate names:	6xHis-Tag, HHHHHH Tag, HIS6 Tag, His Tag
Catalog No.:	AP23426PU-S
Quantity:	50 µg
Concentration:	1.0 mg/ml
Background:	Plasmid vectors for the expression of coding regions of eukaryotic genes in bacterial, insect and mammalian hosts are in common usage; such expression vectors are frequently used to encode hybrid fusion proteins consisting of a eukaryotic target protein and a specialized region designed to aid in the purification and visualization of the target protein. A system that has proven to be very successful relies on the insertion of a six histidine (6xHis) sequence in the N-terminus of the encoded protein, allowing for efficient coupling to Ni -chelating resins and purification by single step affinity chromatography. Visualization of such fusion proteins can be achieved by utilizing antibodies generated against specific peptide sequences downstream from the multiple cloning site. The antibody is useful for detection, isolation and localization of the His-tag proteins.
Host / Isotype:	Rabbit / IgG
Immunogen:	Synthetic peptide containing the His epitope 6x His (H-H-H-H-H-H).
Format:	State: Liquid purified Ig fraction. Purification: Immunoaffinity Chromatography using epitope-specific peptide. Buffer System: PBS (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150 mM NaCl, 0.02% Sodium Azide and 50% Glycerol.
Applications:	Western Blot (1/500-1/1000). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	His-Tag Polyclonal antibody recognizes His-tagged proteins overexpressed in cells, including both amino-or carboxy-termini of targeted proteins in transfected mammalian cells. Species: All. Other species not tested.
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing. Shelf life: One year from despatch.
General Readings:	1. Terpe K. et al. (2003) Appl Microbiol Biotechnol; 60(5):523-533. 2. Xu L. et al. (2006) Cell Mol Immunol; 3(2):139-143. 3. Els Conrath, K., et al. (2001) J. Biol. Chem. 276: 7346-7350.

Pictures:

Western blot analysis of extract from control 293 cells (Lane 1) or transfected with His-tagged S6 (Lane 2) and transfected with His-tagged CREB (Lane 3) using His-Tag Polyclonal antibody AP23426PU.

