

AM05288PU-N**Monoclonal Antibody to 6xHistidine Epitope Tag (HHHHHH) - Purified**

Quantity:	0.1 mg
Concentration:	Lot specific
Background:	6x-His tags are a type of tag for expressed proteins. This tag is made up of 6 histidine residues attached to either the N- or C-terminal of a protein. Proteins expressed with this type of tag are then traditionally purified using a divalent metal ion column. However, using an antibody specific to this 6x-His tag, the protein can be analyzed for by Western blot or immunofluorescence techniques, thus eliminating the need for a protein-specific antibody. 6x-His tags are particularly effective for the purification of protein expressed in E. coli systems.
Host / Isotype:	Mouse / IgG2a
Recommended Isotype Controls:	AM03096PU-N
Clone:	IPA2C5.1
Immunogen:	Hybridoma produced by the fusion of splenocytes from mice immunized with His-His-His-His-His-His synthetic peptide and mouse myeloma cells.
Format:	State: Liquid (sterile filtered) purified IgG fraction. Buffer System: PBS containing 0.08% Sodium Azide as preservative.
Applications:	Western Blot. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody is effective in detecting proteins expressed using the following vector systems, pET 28, 30 and 32 as well as Invitrogen's pLZ. Specific for 6x-His tags only and for His tags no longer than 6 histidines.
Storage:	Store the antibody at -20°C. Avoid repeated freezing and thawing. Shelf life: One year from despatch.
General Readings:	<ol style="list-style-type: none">1. Zentgraf H, Frey M, Schwinn S, Tessmer C, Willemann B, Samstag Y, et al. Detection of histidine-tagged fusion proteins by using a high-specific mouse monoclonal anti-histidine tag antibody. <i>Nucleic Acids Res.</i> 1995 Aug 25;23(16):3347-8. PubMed PMID: 7667114.2. Sisk WP, Bradley JD, Leipold RJ, Stoltzfus AM, Ponce de Leon M, Hilf M, et al. High-level expression and purification of secreted forms of herpes simplex virus type 1 glycoprotein gD synthesized by baculovirus-infected insect cells. <i>J Virol.</i> 1994 Feb;68(2):766-75. PubMed PMID: 8289380.3. Hosfield T, Lu Q. S. pombe expression vector with 6x(His) tag for protein purification and potential for ligation-independent cloning. <i>Biotechniques.</i> 1999 Jul;27(1):58-60. PubMed PMID: 10407663.

Pictures:

Figure 1. Western blot of His tagged protein (vector pET 30C) using AM05288PU-N antibody. Lane 1: Whole cellular extract of BL21 (DE3) pJT4pTT9 bacteria carrying gene encoding for His-Rel E protein (uninduced). Lane 2: Induced. Lane 3: Induced (1/2 dilution). Lane 4: Purified His-Rel E protein (~ 17 kDa).

