

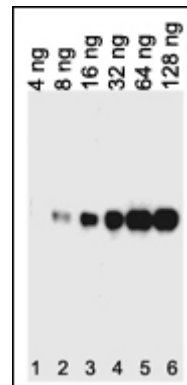
AM11011SU-N**Monoclonal Antibody to 6xHistidine Epitope Tag (HHHHHH) - Ascites**

Quantity:	0.4 ml
Concentration:	0.5 mg/ml (Lot specific)
Background:	Epitope tags consisting of short sequences recognized by well-characterized monoclonal antibodies have been widely used in the study of protein expression in various systems. The 6xHIS tag (HHHHHH), recognized by the monoclonal antibody clone 6AT18 provides an established example of this application. 6xHIS-tagged fusion proteins are easily purified from cell lysates by affinity chromatography using Nickel-Sepharose resin. Anti-6xHIS monoclonal antibody provides a simple solution to detect the expression of HIS-tagged fusion proteins in cells.
Host / Isotype:	Mouse / IgG1
Clone:	6AT18
Immunogen:	Purified recombinant HIS-tagged fusion protein and poly-HIS peptide were used to produced this monoclonal antibody.
Format:	State: Ascites. Buffer System: PBS containing 0.09% (W/V) Sodium Azide as preservative.
Applications:	Peptide ELISA: 1/5,000. Western blotting: 1/1,000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Storage:	Store 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:	<ol style="list-style-type: none">1. Unsal-Kacmaz, Keziban, et al. Mol. Cell. Biol. 2007 Apr 15;27(8):3131-3142. (Applications: WB)2. Partch, C.L., et al. Biochemistry 2005 Feb 11.44 (10): 3795-3805. (Applications: WB).3. Hochuli E, Döbeli H, Schacher A. New metal chelate adsorbent selective for proteins and peptides containing neighbouring histidine residues. J Chromatogr. 1987 Dec 18;411:177-84. PubMed PMID: 3443622.4. Yadav KK, Bar-Sagi D. Allosteric gating of Son of sevenless activity by the histone domain. Proc Natl Acad Sci U S A. 2010 Feb 23;107(8):3436-40. doi: 10.1073/pnas.0914315107. Epub 2010 Feb 4. PubMed PMID: 20133694.5. Mohammed Bahey-El-Din, et al. Expression of two Listeria monocytogenes antigens (P60 and LLO) in Lactococcus lactis and examination for use as live vaccine vectors J Med Microbiol. 2010 May 206. Kemp MG, Akan Z, Yilmaz S, Grillo M, Smith-Roe SL, Kang TH, et al. Tipin-replication protein A interaction mediates Chk1 phosphorylation by ATR in response to genotoxic stress. J Biol Chem. 2010 May 28;285(22):16562-71. doi: 10.1074/jbc.M110.110304. Epub 2010 Mar 15. PubMed PMID: 20233725.7. Mongiat M, Marastoni S, Ligresti G, Lorenzon E, Schiappacassi M, Perris R, et al.

The extracellular matrix glycoprotein elastin microfibril interface located protein 2: a dual role in the tumor microenvironment. Neoplasia. 2010 Apr;12(4):294-304. PubMed PMID: 20360940.

Pictures:

Figure 1. HIS-tagged recombinant protein was expressed in E. Coli, and used to test the 6xHIS monoclonal antibody (6AT18).



Anti-HIS Tag at 1:2000 dilution + 12 tag recombinant protein lysate
 Lysates/proteins at 20 µg per lane.
 Secondary Goat Anti-mouse IgG, (H+L),
 Peroxidase conjugated at 1/10000 dilution. Predicted band size : 45-50 kDa
 Blocking/Dilution buffer: 5% NFDM/TBST.

