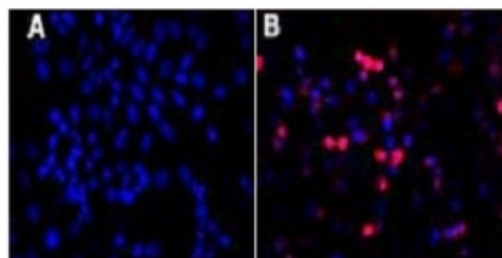


## Monoclonal Antibody to 6xHistidine Epitope Tag (HHHHHH) - Purified

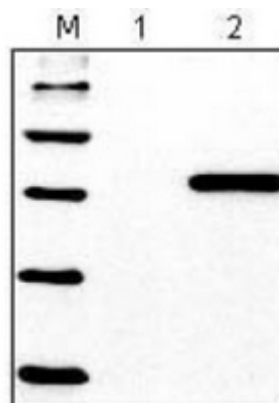
<b>Catalog No.:</b>	AM10178PU-N
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	1.0 mg/ml
<b>Background:</b>	Plasmid vectors for the expression of coding regions of eukaryotic genes in bacterial, insect and mammalian hosts are in common usage; such expression vectors are frequently used to encode hybrid 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.
<b>Host / Isotype:</b>	Mouse / IgG2b
<b>Recommended Isotype Controls:</b>	SM12P, AM03110PU-N
<b>Clone:</b>	HIS.H8 / EH158
<b>Immunogen:</b>	HHHHHH (6x His) synthetic peptide conjugated to KLH
<b>Format:</b>	<b>State:</b> Liquid purified IgG fraction <b>Purification:</b> Affinity Chromatography <b>Buffer System:</b> 10mM PBS, pH 7.2 <b>Preservatives:</b> 0.05% Sodium Azide
<b>Applications:</b>	<b>ELISA.</b> <b>Western Blot:</b> 1/1000-1/3000. <b>Immunostaining:</b> 1/500-1/2000. <b>Immunoprecipitation.</b> <b>Immunocytochemistry.</b> Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	Reacts with the epitope of 6x His-tags encoded by many commercially available vectors, regardless of the tag's location in the fusion protein sequences ( <i>i.e.</i> : reacts with <i>N-terminal</i> , <i>C-terminal</i> or <i>internal</i> 6x His-tags).
<b>Storage:</b>	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.

**Pictures:**

Immunofluorescence staining of His Tag fusion protein in 293 cells using His tag antibody. A: Untransfected Control HEK293 cells B: Transfected HEK293 cells



Western blot analysis using 6X His tag antibody of 293 cells transfected with His- Tagged vector (Lane 2) and Untransfected control (Lane 1).



Standard ladder containing 5 different His-tagged proteins: Lane 1: His Tag Monoclonal antibody from other Company. Lane 2: His Tag Monoclonal antibody AM10178PU-N

