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Product Data Sheet

6x-His Tag
Anti-6x-Histidine Tag Antibody

CATALOG NUMBER 245-1181M

SIZE100 µg

FORM Purified

FORMULATION Provided as 0.2 µm sterile filtered solution in phosphate buffered saline with 0.08% sodium azide

HOST/CLONE Mouse Cln IPA2C6.1

CONCENTRATION1 mg/ml

ISOTYPE IgG2a

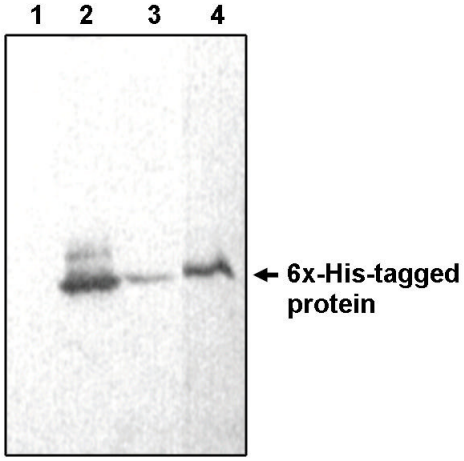
BACKGROUND
6x-His tags are a type of tag for expressed proteins. This tag is made up of 6 histidine residues attached to either the N- or C-terminal of a protein. Proteins expressed with this type of tag are then traditionally purified using a divalent metal ion column. However, using an antibody specific 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. This antibody has been found to be effective in detecting proteins expressed using the following vector systems, pET 28, 30 and 32 as well as Invitrogen's pIZ and is specific for 6x-His tags only.

APPLICATIONS Western Blotting

IMMUNOGEN Hybridoma produced by the fusion of splenocytes from mice immunized with His-His-His-His-His-His synthetic peptide and mouse myeloma cells.

SPECIES REACTIVITY Ubiquitous

Legend: Western blot of His tagged protein (vector pET 30C) using anti-6x His antibody. (1) Whole cellular extract of BL21 (DE3) pJT4pTT9 bacteria carrying gene encoding for His-Rel E protein (uninduced), (2) Induced, (3) Induced (1/2 dilution), (4) Purified His-Rel E protein (~ 17 kDa).



COMMENTS Detects only 6x-His tag by Western blot. Specific for His tags no longer than 6 histidines.

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SHIP CONDITIONS Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER Antibodies should be stored at -20 degrees C. Aliquot to avoid freeze/thaw cycles

STABILITY Products are stable for one year from purchase when stored properly

REFERENCES

1. Zentgraf, H., et al. "Detection of histidine-tagged fusion proteins by using a high-specific mouse monoclonal anti-histidine tag antibody." Nucleic Acids Res. 1995, 23, 3347-3348
2. Sisk, W.P., et al. "High-level expression and purification of secreted forms of herpes simplex virus type 1 glycoprotein gD synthesized by baculovirus-infected insect cells." J. Virol. 1994, 68, 766-775
3. Hosfield, T. and Lu, Q. "S. pombe expression vector with 6x(His) tag for protein purification and potential for ligation-independent cloning." Biotechniques 1999, 27, 50-60

For research use only. Not for use in human diagnostics or therapeutics.

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