

Product Specification Sheet

Anti-Poly Histidine Tag (His-tag) Antibody

Cat # HISP14-M

Monoclonal Anti-poly His-Tag IgG #2, aff pure

SIZE: 100 ug

Recombinant DNA technology allows the addition of short pieces of well-defined tags, "peptides" or proteins at the amino or c-terminus of target genes, which can provide 'affinity handles' designed to bind specific matrices. Therefore, tags enables a selective identification and purification of the protein of interest. Poly-His (His x 6) containing proteins can be purified by immobilized metal ion affinity chromatography (IMAC), making use of its high affinity for transition metal ions (1-4). This purification system eliminates the harsh conditions required to elute protein from ligand affinity columns. Numerous recombinant fusion proteins have been engineered with histidine tags to allow detection, isolation and purification of fusion proteins (1-4). Anti-poly may be used to identify the expression of a poly-histidine fusion protein in bacteria, bacterial lysates or cells and tissues transfected with a poly-histidine fusion protein expression vectors.

Source of Antibody and Conjugate

Antigen	Poly-his (6-His) peptide
Ab Host/type	Balb/c mouse . Splenocytes were fused with Sp2/0 myeloma cells. Resulting clone (designated HISP11, isotype IgG1), selected for reactivity with poly-His, was expanded into mice as ascites . Antibody (#HISP14-M) has been purified by Protein A/G column chromatography.
2-Ab	Goat Anti-mouse IgG-HRP conjugate Cat # 40320 (AP, biotin, FITC conjugates also available)
-ve control IgG	Cat # 20008-1, Mouse (non-immune) Serum IgG, purified, suitable for ELISA, Western, IHC as -ve control

Form & Storage of Antibodies/Peptide Control

Aff pure IgG
100 ug/100 ul solution lyophilized powder
contains 0.05% azide **Reconstitute powder** in 100 ul PBS

Storage

Short-term: unopened, undiluted vials for less than a week at 4oC.

Long-term: at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20oC or below.

Shipping: 4oC for solutions and room temp for powder.

Recommended Usage

Western Blotting (1-2 ug/ml using purified IgG).

ELISA (0.1-1 ug/ml)

Histochemistry & Immunofluorescence: 1:100-1:500

Antibody concentration must be optimized for each application under defined experimental conditions.

Specificity and antibody reactivity

Monoclonal anti-poly His antibody reacts with His-tag (N or C-terminus) in fusion proteins. Several recombinant His-tag fusion proteins are available to test or optimize the antibodies and use as positive controls (#HISP15-R).

General References:

Narayanan, S., J. Chromatogr., 658, 237 (1994), Casey, J., et al., J. Immunol. Meth., 179, 105 (1995), Uhlen, M., and Moks, T., Meth. Enzymol., 185, 129 (1990), Skerra, A., et al., Bio/Technology, 9, 273 (1991).

*This product is for In vitro research use only.

Other Fusion tag antibodies available from ADI

Cat#	description
HISP11-M antibody, ascites	Monoclonal Anti-Poly-His (6xhis) (His-tag)
HISP12-HRP	Monoclonal Anti-Poly His-HRP conjugate
HISP13-AP conjugate	Monoclonal Anti-Poly His-Alk. Phosphatase conjugate
HISP14-M	Monoclonal Anti-Poly-His (6xhis) (His-tag) IgG
HISP15-AS matrix)	Monoclonal Anti-Poly His IgG-Sepharose (aff matrix)
HISP15-AS-1 matrix)	Monoclonal Anti-Poly His-IgG-Sepharose (aff matrix)
HISP15-R control for ELISA	Recombinant purified his-tag -Protein (~9 kda)
HISP16-AAnti-Poly-His (6xhis) (His-tag) IgG, aff pure	
HISP16-FITC conjugate	Anti-Poly-His (6xhis) (His-tag) IgG-FITC conjugate

Western Blot Recycling Kit (Strips blots in 5 minutes) and re-use the same blot with multiple antibodies

HISP14-M 71216A

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