

Product Specification Sheet

Monoclonal Anti-Poly Histidine Tag (His-tag) Antibody & HRP Conjugate

Cat # HISP11-M	Mouse Monoclonal Anti-poly His-Tag, ascites	SIZE: 100 ul
Cat # HISP12-HRP	Mouse Monoclonal Anti-poly His-Tag- HRP Conjugate	SIZE: 100 ul
Cat # HISP13-AP	Mouse Monoclonal Anti-poly His-Tag- Alk Phos (AP) Conjugate	SIZE: 100 ul

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	Purified His-tag-fusion protein
Ab Host/type	Balb/c mouse . Splenocytes were fused with Sp2/0 myeloma cells. Resulting clone (designated HISP11, isotype IgG2a), selected for reactivity with his-tagI, was expanded into mice as ascites (#HISP11-M) . Antibody has been purified by Protein A/G column chromatography and conjugated to HRP (#HISP12-HRP) or Alk Phosphatase (#HISP13-AP).
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

Mouse monoclonal antibody, HRP and AP-conjugates are supplied as 100 ul soln (1 mg/ml) or lyophilized preserved in 0.1% sodium azide. **Lyophilized products** should be reconstituted in 100 ul water and gently mixed for 15 min at room temp. All peptide/antibody received in solution or reconstituted from Lyophilized vials should be

stored frozen at -20oC or below in suitable aliquots. It is not recommended to store diluted solutions. Avoid repeated freeze and thaw.

Recommended Usage

Western Blotting (1:1K-5K using Chemiluminescence technique). Antibodies react with native and denatured his-tag containing proteins. Anti-His-AP or -HRP conjugates can be used directly at an appropriate dilution (1-10 K) depending upon the sensitivity of the assay.

ELISA (1:10-50K; using 50-100 ng control antigen/well).

Histochemistry & Immunofluorescence: We recommend the use of affinity pure antibody at 10-50 ug/ml or enzyme conjugates at 1:200-1:2K.

Specificity & Cross-reactivity

Monoclonal Anti-poly-Histidine recognizes native and denatured-reduced forms of synthetic poly-histidine or poly-histidine-tagged fusion proteins in immunoblotting, dot blot and ELISA. The antibodies react with fusion protein expressed by prokaryotic pET, pRSET and pTrc expression vectors.

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

Anti-MBP, Poly-His, GST, beta-Gal, VSV-G, Flag, HA-tag, and c-myc

Anti-Rabbit IgG-HRP Conjugate and ECL Reagents

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

HISP11-M-12-HRP-13-AP

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