

Product Specification Sheet

**Anti-Poly His IgG-Sepharose**

Cat # HISP15-AS      Mouse Monoclonal Anti-poly His-IgG-Sepharose      **SIZE:** 0.25      1 ml

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**

Balb/c mice were injected with His-tag-fusion protein and resulting clones were selected to react with poly-his tag. The resulting clone (IgG2a) was expanded as ascites (cat # HISP11-M).

Purified antibody was coupled to Sepharose at 2-3 mg/ml bed volume (Cat # HISP15-AS). Binding capacity is at least 5-10 nmoles of HIS tagged protein per 1 ml settled resin (i.e., 100-400 µg protein/ml settled resin, for proteins of 5-50 kDa, respectively). It is supplied in PBS+0.05% azide as 1:1 (v/v) suspension. Store at 2-4°C. **Do not freeze.**

**Recommended Usage**

Anti-poly His-Sepharose may be used for immunoprecipitation and for affinity purification of fusion proteins containing His-tags. The amounts of the matrix suitable for IP for any given fusion protein must be evaluated. The binding capacity of the column for the affinity purification of the fusion protein must also be evaluated for a given fusion protein.

**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**

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

HISP15-AS-1      71216A

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