

Product Specification Sheet

Anti-Poly Histidine Tag (His-tag) Antibody

Cat # HISP16-A	Goat Anti-poly His-Tag IgG, aff pure	SIZE: 100 ug
Cat # HISP16-FITC	Goat Anti-poly His-Tag IgG- FITC 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

#Cat# HISP16-A, unlabeled

Antigen	6-His peptide conjugated with KLH
Ab Host/type	Goat, Polyclonal purified IgG, purified over antigen-agarose (Cat # HISP16-A). supplied in PBS pH 7.2 at 1 mg/ml or 100 ug/100 ul in liquid or powder forms. Dissolve powder in 100 ul water to prepare 1 mg/ml solution. Store frozen in suitable aliquots
2-Ab	Rabbit Anti-goat IgG-HRP conjugate Cat # 30220 (AP, biotin, FITC conjugates also available)
-ve control IgG	# 20011-1, Goat (non-immune) IgG, purified, suitable for ELISA, Western, IHC as -ve control

#Cat# HISP16-FITC, FITC-labeled

Purified anti-poly His IgG (#HISP16-A) was covalently coupled to FITC (Fluorescein isothiocyanate) (**Cat # HISP16-FITC**). It is supplied in PBS pH 7.4, 0.2% BSA and 0.05% azide. Antibody concentration is ~ 1mg/ml. FITC:IgG (F/P) ratio is 3 to 7. Store at 4oC.

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.

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
HISP14-M	Monoclonal Anti-Poly-His (6xhis) (His-tag) IgG
HISP15-AS matrix)	Monoclonal Anti-Poly His IgG-Sepharose (aff
HISP15-AS-1 matrix)	Monoclonal Anti-Poly His-IgG-Sepharose (aff
HISP15-R	Recombinant purified his-tag -Protein (~9 kda) control for ELISA
HISP16-AAnti-Poly-His (6xhis) (His-tag) IgG, aff pure	
HISP16-FITC conjugate	Anti-Poly-His (6xhis) (His-tag) IgG-FITC
Western Blot Recycling Kit (Strips blots in 5 minutes) and re-use the same blot with multiple antibodies	
HISP16-A-FITC	71216A

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