ALPHA DIAGNOSTIC INTERNATIONAL

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Product Specification Sheet

Recombinant Hisx6 (His–tag) fusion Protein (~130 Kda)

Cat. HISP130-C	Recombinant Hisx6-tag (His-tag)-Fusion protein (~130 Kda) for Western **FORM:** Soln Lyophilized	**SIZE:** 100 ul
Cat. HISP130-R	Recombinant Hisx6-tag (His-tag)-Fusion protein (~130 Kda) for ELISA **FORM:** Soln Lyophilized	**SIZE:** 10 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 Antigen and Antibodies

Poly Hisx6-tag (His-tag) was expressed as N-terminal fusion protein of ~130 kDa in E. coli and purified to >95%. It is supplied for use in Western blot (**Cat # HISP130-C**) or for ELISA coating or other applications (**Cat # HISP15-R**).

HISP130-C protein for Western blot +ve control (Cat # HISP130-C) is supplied in SDS-PAGE sample buffer (reduced). Load 10 ul/lane of HISP130-C for good visibility with antibody Cat # HISP14-M or other antibodies. The HISP130-C protein migrate as ~130 kda band. Occasionally, other bands may be see if too much protein loaded on gels or too much primary antibodies. Store at –20oC in suitable size aliquots. SDS may crystallize in cold conditions. It should redissolve by warming and light mixing at room temperature. It should be heated once prior to loading on gels. If the product has been stored for several weeks, then it may be preferable to add 5 ul of fresh 2x sample buffer per 10 ul of the HISP130-C solution prior to heating and loading on gels. This preparation is not biologically active. It is not suitable for ELISA or other applications where native protein is required. This preparation is intended for qualitative purpose and not to serve as standard of known concentration. Do not freeze, thaw, or heat repeatedly.

Cat # HISP130-R is supplied in 25 mM Tris, 125 mM NaCl, pH 7.4, 0.05 mM EDTA, 0.4% sarcosine, 5 mM mercaptoethanol at 10 ug/20 ul in liquid or in powder. Reconstitute the powder in 20 ul water to prepare 10 ug/20 ul (0.5 mg/ml) solution or other desired concentrations. Store stock solutions at –20oC or below in suitable size aliquots. Do not repeatedly freeze and thaw.

Cat # HISP130-R can be used in ELISA as coating protein at 1-5 ug/ml or used as positive control or standards in ELISA or used as His-tag positive control in Western or other similar applications.

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.

General References:

Gazin C et al (1984) EMBO J 3, 383-387; Tachibana K et al (1992) Gene, in press.

*This product is for In vitro research use only.

Related items available from ADI

HISP11-C	Recombinant purified his-tag -Protein (~9 kda) control WB +ve control
HISP11-M	Monoclonal Anti-Poly-His (6xhis) (His-tag)
HISP11-P	Purified his-tag peptide (His)6 or His-tag peptide
HISP12-HRP	Monoclonal Anti-Poly His-HRP conjugate
HISP130-C	Recombinant purified his-tag -Protein (~130 kda) control for ELISA
HISP130-R	Recombinant purified his-tag -Protein (~130 kda) control for ELISA
HISP13-AP	Monoclonal Anti-Poly His-Alk. Phosphatase conjugate
HISP14-M	Monoclonal Anti-Poly-His (6xhis) (His-tag) IgG
HISP15-AS	Monoclonal Anti-Poly His IgG-Agarose (aff matrix)
HISP15-R	Recombinant purified his-tag -Protein (~9 kda) control for ELISA
HISP16-A	Anti-Poly-His (6xhis) (His-tag) IgG, aff pure
HISP16-FITC	Anti-Poly-His (6xhis) (His-tag) IgG-FITC
HISP17-IR7	Anti-Poly-His (6xhis) (His-tag) IgG-IR700DX
HISP17-IR8	Anti-Poly-His (6xhis) (His-tag) IgG-IR800

Anti-MBP, Poly-His, GST, beta-Gal, VSV-G, HA-tag, and c-myc **Western Blot Recycling Kit (Strips blots in 5 minutes)** and re-use the same blot with multiple antibodies

HISP130-C, HISP15-R 100408A

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