ALPHA DIAGNOSTIC INTERNATIONAL

Product Specification Sheet

Poly Histidine Tag (His)6 Peptide

Cat # SP-51381-5 Poly His-Tag (His His His His His His)6; or (His)6 control peptide **SIZE**: 5 mg

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

Poly (His)6 (His-tag) peptide was synthesize and purified (>90%) (cat# **SP-51381-5-P**; mol wt 840.87 daltons). it is supplied as powder. Store at -20oC under dry conditions. It can be used as blocking peptide for all anti-poly his antibodies or to coat the ELISA plates or used for the elution of antibodies.

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

Recombinant protein with His-tag also available.

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**-AP Conjugate** **SIZE**: 100 ul

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

SP-51381-5 90609A

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