

Product Datasheet

His Tag Antibody (33D10.D2.G8) [HRP] NBP1-42783

Unit Size: 0.1 mg

Store lyophilized antibody at 4C in the dark. Aliquot reconstituted liquid and store at -20C. Avoid freeze-thaw cycles.

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NBP1-42783

His Tag Antibody (33D10.D2.G8) [HRP]

Product Information	
Unit Size	0.1 mg
Concentration	LYOPH mg/ml
Storage	Store lyophilized antibody at 4C in the dark. Aliquot reconstituted liquid and store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	33D10.D2.G8
Preservative	0.01% Gentamicin Sulfate
Reconstitution Instructions	Reconstitute with 100 ul deionized water (or equivalent)
Isotype	IgG1 Kappa
Conjugate	HRP
Purity	Protein A purified
Buffer	Lyophilized from 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

Product Description	
Description	<p>Store vial at 4C prior to restoration. For extended storage aliquot contents and freeze at -20C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4C as an undiluted liquid. Dilute only prior to immediate use.</p> <p>This protein-A purified antibody is directed against the 6X His motif and is useful in determining its presence in various assays</p>
Host	Mouse
Species	Epitope Tag
Reactivity Notes	6x His tag specific
Specificity/Sensitivity	This protein-A purified antibody is directed against the 6X His motif and is useful in determining its presence in various assays. This monoclonal anti-6X His tag antibody detects over-expressed proteins containing the 6X His epitope tag. To date, this antibody has reacted with all His tagged proteins so far tested. In western blotting of bacterial extracts, the antibody does not cross-react with endogenous proteins. The antibody recognizes the His-tag (His-His-His-His-His-His) fused to either the amino- or carboxy-termini of targeted proteins in transfected or transformed cells.
Immunogen	His Tag Antibody (33D10.D2.G8) was produced in mice by repeated immunizations with 6X His epitope tag peptide H-H-H-H-H-H conjugated to KLH using maleimide.

Product Application Details	
Applications	Western Blot, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:1000 - 1:5000, ELISA 1:10000, Immunohistochemistry 1:500 - 1:2500, Immunohistochemistry-Paraffin 1:10 - 1:500



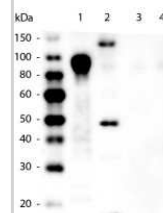
Application Notes

This product is optimally suited for monitoring expression of His-tagged fusion proteins. As such, anti-6X His/6X His can be used to identify fusion proteins containing the 6X His epitope. The antibody recognizes the His tag fused either to the amino- or carboxy- termini of targeted proteins. This antibody has been tested by ELISA and western blotting against both the immunizing peptide and His-containing recombinant proteins. Although not tested, this antibody is likely functional for immunoprecipitation and immunocytochemistry.

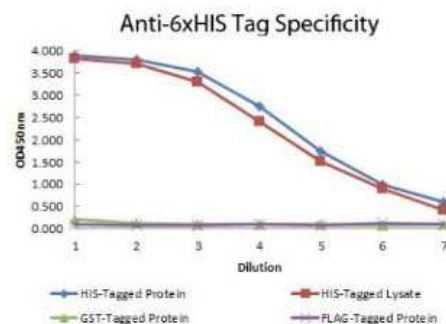
NOTE: Do NOT add Sodium Azide (it inhibits HRP irreversibly).

Images

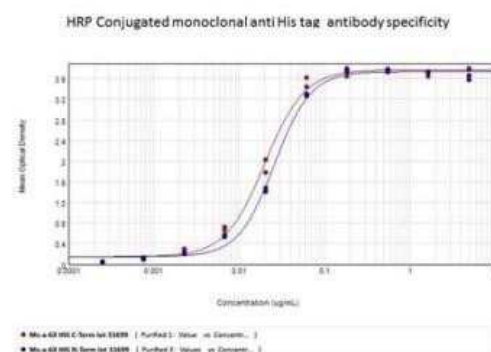
Western Blot: His Tag Antibody (33D10.D2.G8) [HRP] [NBP1-42783] - Lane 1: 100 ng Purified histidine-tagged recombinant protein. Lane 2: 200 ng E. coli cell lysate containing histidine-tagged expression construct. Lane 3: 100 ng Purified GST-tagged recombinant protein. Lane 4: 100 ng Purified FLAG-tagged recombinant protein. Primary antibody: Mouse anti-6xHIS Tag antibody at 1:5,000 overnight at 4C. Secondary antibody: Peroxidase mouse secondary antibody at 1:20,000 for 30 min at RT. Block: 5% BLOTTO for 1 hr at RT.



ELISA: His Tag Antibody (33D10.D2.G8) [HRP] [NBP1-42783] - ELISA of Mouse anti-6xHIS Tag Antibody. Antigen: HIS-tagged purified protein and E. coli cell lysates expressing HIS-Tagged construct, GST- and RON-tagged purified proteins. Coating amount: 0.15 ug per well. Primary antibody: 6xHIS Tag antibody at 100 ug/mL. Dilution series: 2-fold. Mid-point concentration: 200 ng/mL. Secondary antibody: Peroxidase mouse secondary antibody at 1:10,000.



ELISA: His Tag Antibody (33D10.D2.G8) [HRP] [NBP1-42783] - Antigen: 6X HIS-tagged conjugated BSA at the N or C terminus of the 6XHis. Coating amount: 0.15 ug per well. Primary antibody (direct detection): HRP conjugated 6xHIS Tag antibody diluted from stock concentration at 100 ug/mL. Substrate: TMB ELISA peroxidase substrate.

**Publications**

Brandsma ME, Diao H, Wang X et al. Plant-derived recombinant human serum transferrin demonstrates multiple functions. Plant Biotechnol J 2010-05-01 [PMID: 20432512]



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Products Related to NBP1-42783

NBP1-43319H-0.5ml	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1) [HRP]
NBP1-42782	His Tag Antibody (33D10.D2.G8) [Biotin]

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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