

# Product Datasheet

## His Tag Antibody (HIS.H8) - Azide and BSA Free NBP2-31055-100ug

Unit Size: 100 ug

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP2-31055-100ug**

His Tag Antibody (HIS.H8) - Azide and BSA Free

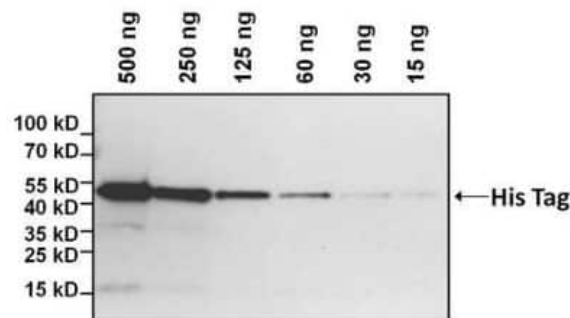
Product Information	
Unit Size	100 ug
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	HIS.H8
Preservative	No Preservative
Isotype	IgG2b
Purity	Protein A purified
Buffer	PBS (pH 7.2)

Product Description	
Host	Mouse
Species	Epitope Tag
Immunogen	This His Tag Antibody (HIS.H8) was developed against a 6x His synthetic peptide.

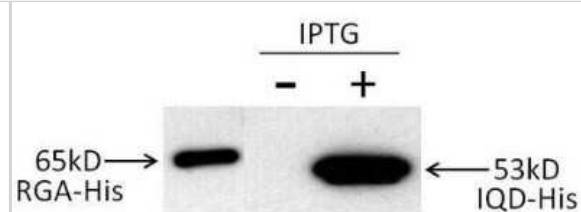
Product Application Details	
Applications	Western Blot, Simple Western, ELISA, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunoprecipitation, CyTOF-ready
Recommended Dilutions	Western Blot 1:1000 - 1:3000, Simple Western, Flow Cytometry 1:10 - 1:1000, ELISA 1:100 - 1:2000, Immunocytochemistry/ Immunofluorescence 1:500 - 1:2000, Immunoprecipitation 1:10 - 1:500, CyTOF-ready
Application Notes	Simple Western reported by an internal validation. Separated by Size-Jess/Wes, Sally Sue/Peggy Sue, antibody dilution of 1:50, 1:100; matrix was 12-230 kDa.

**Images**

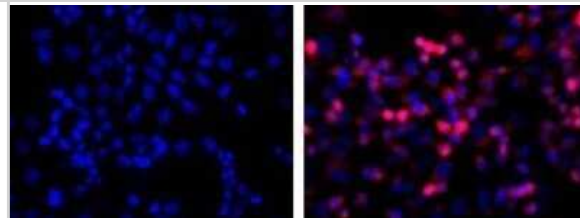
Western Blot: His Tag Antibody (HIS.H8) [NBP2-31055] - Analysis of various amounts of E. coli lysate containing a multi-epitope tagged protein per well.



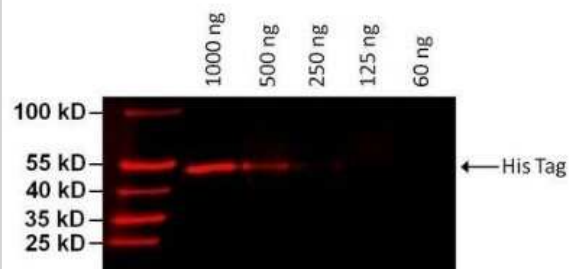
Western Blot: His Tag Antibody (HIS.H8) [NBP2-31055] - Analysis of His-tagged protein in *E. coli* lysates. Western blot image submitted by a verified customer review.



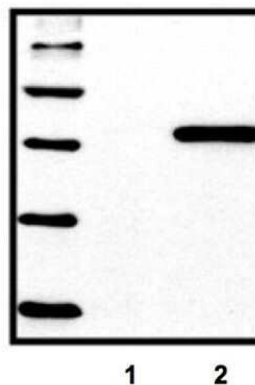
Immunocytochemistry/Immunofluorescence: His Tag Antibody (HIS.H8) [NBP2-31055] - LEFT: untransfected control; RIGHT: anti-His (in red) on His-tagged fusion proteins in HEK293 cells. Both counterstained with DAPI (in blue).



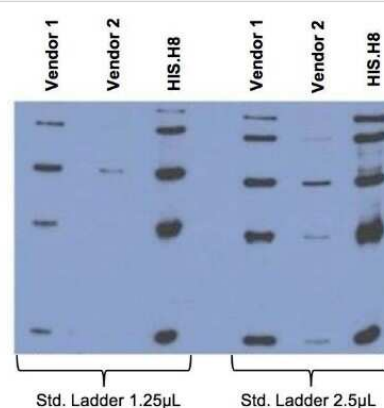
Western Blot: His Tag Antibody (HIS.H8) [NBP2-31055] - Analysis using the DyLight 680 conjugate of NBP2-31055. Detection of 6x-His Epitope Tag was performed by loading various amounts of *E. coli* lysate containing a multi-epitope tagged protein per well onto a 4-20% Tris-HCl polyacrylamide gel. Proteins were transferred to a PVDF membrane and blocked with 5% BSA/TBST for at least 1 hour. The membrane was probed with a DyLight 680-conjugated 6x-His Epitope Tag monoclonal antibody at a dilution of 1:1000 for 1 hour at room temperature on a rocking platform and washed in TBS-0.1% Tween-20. Detection was performed using the LI-COR Odyssey.



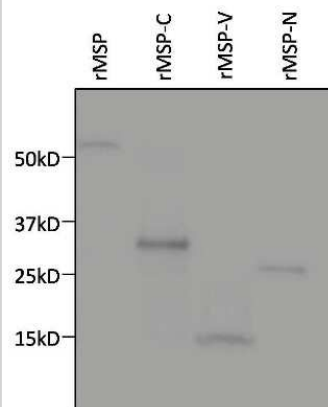
Western Blot: His Tag Antibody (HIS.H8) [NBP2-31055] - Standard ladder containing five different His-tagged proteins; untransfected control (1), HEK293 cells transfected with His-tagged protein vector (2).



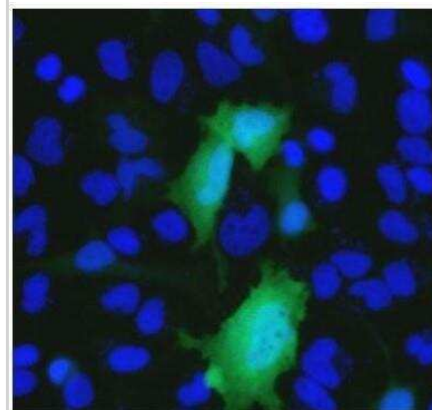
Western Blot: His Tag Antibody (HIS.H8) [NBP2-31055] - Comparison between anti-His tag (HIS.H8 / EH158) mAb with 2 different vendor Abs, probed against a standard ladder containing five different His-tagged proteins. All Ab dilutions are 1:2000 (0.5  $\mu$ L).



Western Blot: His Tag Antibody (HIS.H8) [NBP2-31055] - Analysis of recombinant *Treponema denticola* major outer sheath His-tagged protein fragments (rMSP, rMSP-C, rMSP-V, rMSP-N) purified from *E. coli* was performed by loading 5  $\mu$ g of per well. Western blot image submitted by a verified customer review.



Immunocytochemistry/Immunofluorescence: His Tag Antibody (HIS.H8) [NBP2-31055] - 6-Histidine Epitope Tag Antibody (HIS.H8) [NBP2-31055] - Analysis using the DyLight 488 conjugate of NBP2-31055. Staining of HeLa cells transfected with a construct containing a 6x-His Epitope Tag. Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 1% Blocker BSA for 15 minutes at room temperature. Cells were probed with a DyLight 488-conjugated 6x-His Epitope Tag monoclonal antibody at a dilution of 1:25 for at least 1 hour at room temperature. Nuclei (blue) were stained with Hoechst 33342 dye. Images were taken on a Thermo Scientific ArrayScan or ToxInsight Instrument at 20X magnification.



## Publications

Thompson VF, Wieland DR, Mendoza-Leon V et al. Binding of the nuclear ribonucleoprotein family member FUS to RNA prevents R-loop RNA:DNA hybrid structures *The Journal of biological chemistry* 2023-09-08 [PMID: 37690693] (IP)

Ajam T, De I, Petkau N Et al. Alternative catalytic residues in the active site of Esco acetyltransferases *Sci Rep* 2020-06-20 [PMID: 32555289]

Details:

Citation using the HRP version of this antibody.

Ihara S, Miyamoto Y, Le CHY et al. Conserved metabolic enzymes as vaccine antigens for giardiasis *PLoS neglected tropical diseases* [PMID: 35468132] (MI)



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### **Products Related to NBP2-31055-100ug**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP2-27231	Mouse IgG2b Isotype Control (MPC-11)
NBP2-31055H-0.1ml	His Tag Antibody (HIS.H8) [HRP]

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### **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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