

Product Datasheet

HAP1 Antibody (1B6) - BSA Free NB110-74569

Unit Size: 0.1 ml

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

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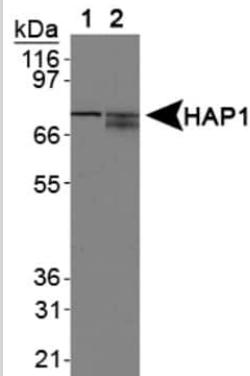
NB110-74569

HAP1 Antibody (1B6) - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	1B6
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS and 50% Glycerol
Product Description	
Description	Novus Biologicals Mouse HAP1 Antibody (1B6) - BSA Free (NB110-74569) is a monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF and IP. Anti-HAP1 Antibody: Cited in 9 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	9001
Gene Symbol	HAP1
Species	Human, Mouse, Rat
Specificity/Sensitivity	This is specific for isoforms A and B.
Immunogen	Fusion protein from rat HAP1. [UniProt# P54256]
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation
Recommended Dilutions	Western Blot 0.5-1.0 ug/ml, Flow Cytometry 1 ug per million cells, Immunohistochemistry 0.5-1.0 ug/ml, Immunocytochemistry/ Immunofluorescence reported in scientific literature, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 0.5-1.0 ug/ml, Immunohistochemistry-Frozen 0.5-1.0 ug/ml
Application Notes	In Western blot bands can be seen ~95 kDa for isoform A and ~110 kDa for isoform B.

Images

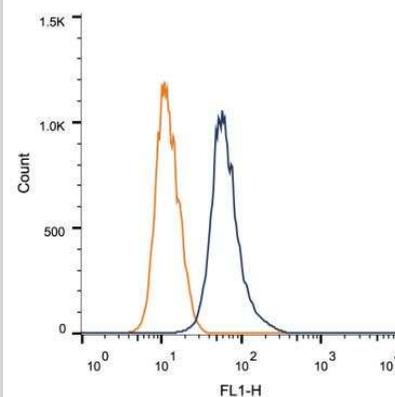
Western Blot: HAP1 Antibody (1B6) [NB110-74569] - Analysis of HAP1 using Lane 1: mouse brain lysate and Lane 2: human brain lysate.



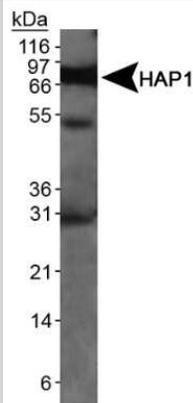
Immunohistochemistry: HAP1 Antibody (1B6) [NB110-74569] - Staining of rat hypothalamus.



Flow Cytometry: HAP1 Antibody (1B6) [NB110-74569] - Intracellular flow cytometric staining of 1×10^6 MCF-7 cells using HAP1 antibody (dark blue). Isotype control shown in orange. An antibody concentration of $1 \mu\text{g}/1 \times 10^6$ cells was used.



Western Blot: HAP1 Antibody (1B6) [NB110-74569] - Detection of HAP1 in mouse brain lysate.



Publications

Cason SE, Carman PJ, Van Duyne C et al. Sequential dynein effectors regulate axonal autophagosome motility in a maturation-dependent pathway *Journal of Cell Biology* 2021-07-05 [PMID: 34014261] (Western Blot, Mouse)

Gong YJ, Feng Y, Cao YY et al. Huntingtin-associated protein 1 plays an essential role in the pathogenesis of type 2 diabetes by regulating the translocation of GLUT4 in mouse adipocytes *BMJ Open Diabetes Res Care* 2020-10-01 [PMID: 33060070] (IF/IHC, Mouse)

Xiang J, Yang S, Xin N et al. DYRK1A regulates Hap1-Dcaf7/WDR68 binding with implication for delayed growth in Down syndrome *Proc. Natl. Acad. Sci. U.S.A* 2017-01-30 [PMID: 28137862] (IP, Mouse)

Corradini E, Burgers PP, Plank M et al. Huntingtin associated protein (HAP1) is a cGMP-dependent kinase anchoring protein (GKAP), specific for the cGMP-dependent protein kinase Ibeta isoform *J. Biol. Chem.* 2015-02-04 [PMID: 25653285] (WB, Human)

Details:

HAP1 antibody used for WB analysis of total cell lysates as well as the pulldowns performed in COS-7 cells which were co-transfected with HAP1 alone or with either PKG I alpha or PKG I beta (FIGURE 2). WB also performed on lysates and proteins pulled down in COS-7 cells co-expressing PKG I beta-GFP plasmid with HAP1-DSRed construct (Control), HAP1-DSRed bearing the double mutation K567A/R568A, and C-terminal truncated HAP1-DSRed construct /HAP1 amino acids 157-386 (FIGURE 6).

Corradini E, Vallur R, Raaijmakers LM et al. Alterations in the cerebellar (phospho)proteome of a cGMP-dependent protein kinase knockout mouse. *Mol. Cell Proteomics.* 2014-06-12 [PMID: 24925903] (WB, Mouse)

Details:

6 week-old female WT and cGKI-KO mice (carrying a null mutation of the *prkg1* gene, also termed cGKIL-/L- mice) on a 129/Sv background were sacrificed and cerebella were kept frozen until testing. The tissues were lysed by sonication in lysis buffer and processed for WB using mouse anti-Huntingtin associated protein 1 (HAP1, Novus biological, 1:5000). HAP1 showed an increased expression in the cerebellum of cGKI-KO mice.

Gutekunst, C et al. Stigmoid bodies contain type I receptor proteins SorLA/LR11 and sortilin: new perspectives on their function. *J Histochem Cytochem*;51(6):841-52. 2003-06-01 [PMID: 12754295] (ICC/IF, WB, Rat, Mouse)

Tang TS, Tu H, Chan EY, Maximov A, Wang Z, Wellington CL, Hayden MR, Bezprozvanny I. Huntingtin and huntingtin-associated protein 1 influence neuronal calcium signaling mediated by inositol-(1,4,5) triphosphate receptor type 1. *Neuron*;39(2):227-39. 2003-07-17 [PMID: 12873381] (IP, Rat, Mouse)

Torre ER, Coleman S, Yi H et al. A protocol for isolation and biochemical characterization of stigmoid bodies from rat brain. *J Neurosci Methods* 2003-05-01 [PMID: 12763227] (WB, Rat)

Chan, E et al. Targeted disruption of Huntingtin-associated protein-1 (Hap1) results in postnatal death due to depressed feeding behavior. *Hum Mol Genet*;11(8):945-59. 2002-04-15 [PMID: 11971876] (WB, Mouse)



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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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