

Product Datasheet

Endophilin B1/Bif-1 Antibody (30A882.1.1) - BSA Free NBP2-24733

Unit Size: 0.1 mg

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

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NBP2-24733

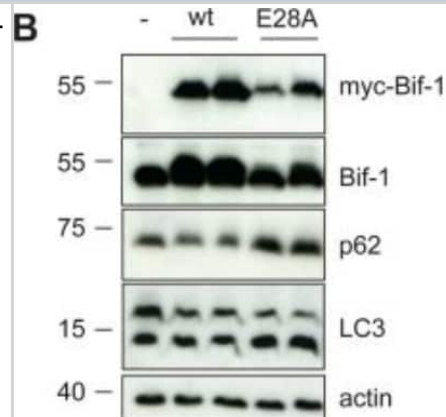
Endophilin B1/Bif-1 Antibody (30A882.1.1) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	30A882.1.1
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS
Product Description	
Description	Novus Biologicals Mouse Endophilin B1/Bif-1 Antibody (30A882.1.1) - BSA Free (NBP2-24733) is a monoclonal antibody validated for use in IHC, WB, ICC/IF, Simple Western and IP. Anti-Endophilin B1/Bif-1 Antibody: Cited in 28 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	51100
Gene Symbol	SH3GLB1
Species	Human, Mouse, Rat
Reactivity Notes	Use in Human reported in scientific literature (PMID:33802405).
Immunogen	A full-length human Bif-1 recombinant protein was used as immunogen.
Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot, Simple Western 1:200, Immunohistochemistry 5ug/ml, Immunocytochemistry/ Immunofluorescence reported in multiple pieces of scientific literature, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 5 ug/ml
Application Notes	In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: Tested in Jurkat lysate 0.05 mg/mL, separated by Size, antibody dilution of 1:200, apparent MW was 47 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.

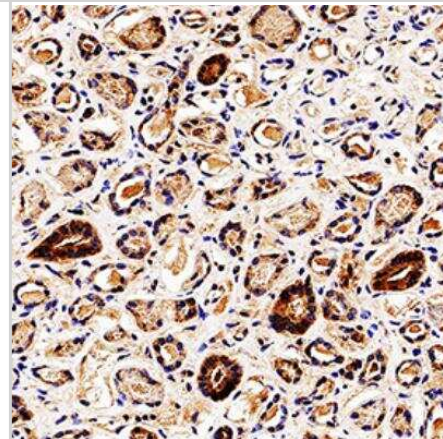


Images

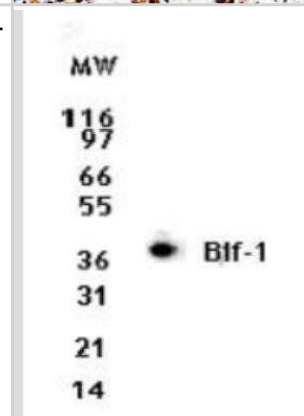
Western Blot: Endophilin B1/Bif-1 Antibody (30A882.1.1) [NBP2-24733] - Amino acid E28 on Bif-1 is important for calpain-mediated processing and autophagic clearance of p62. The myc-tagged constructs: wild-type Endophilin B1/Bif-1 and E28A Endophilin B1/Bif-1 were transfected into H1299 cells. 24h later, the cells were treated or not with 100nM thapsigargin for 1h. Afterwards, the cell lysates were prepared and analyzed by western blot with the indicated antibodies. Image collected and cropped by CiteAb from the following publication (<https://bio.biologists.org/content/6/5/551.long>), licensed under a CC-BY license.



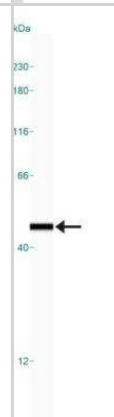
Immunohistochemistry-Paraffin: Endophilin B1/Bif-1 Antibody (30A882.1.1) [NBP2-24733] - IHC analysis of formalin fixed paraffin-embedded (FFPE) human kidney using 5 ug/ml conc. of Endophilin B1 antibody (clone 30A882.1.1) on a Bond Rx autostainer (Leica Biosystems). The assay involved 20 minutes of heat induced antigen retrieval (HIER) using 10mM sodium citrate buffer (pH 6.0) and endogenous peroxidase quenching with peroxide block. The sections were incubated with primary antibody for 30 minutes and Bond Polymer Refine Detection (Leica Biosystems) with DAB was used for signal development followed by counterstaining with hematoxylin. Whole slide scanning and capturing of representative images was performed using Aperio AT2 (Leica Biosystems). Cytoplasmic staining of Endophilin B1 was observed. Staining was performed by Histowiz.



Western Blot: Endophilin B1/Bif-1 Antibody (30A882.1.1) [NBP2-24733] - Analysis for Bi-f-1/Endophilin-B1 using this antibody at 2 ug/ml dilution against 10 ug of Jurkat cell lysate.



Simple Western: Endophilin B1/Bif-1 Antibody (30A882.1.1) [NBP2-24733] - Simple Western lane view shows a specific band for Endophilin B1/Bif-1 in 0.05 mg/ml of Jurkat lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Publications

Hou P, Guo Y, Jin H et al. Bif-1c Attenuates Viral Proliferation by Regulating Autophagic Flux Blockade Induced by the Rabies Virus CVS-11 Strain in N2a Cells *Microbiology spectrum* 2023-04-04 [PMID: 37014208] (WB, Mouse)

Cho C, Zeigler M, Mizuno S et al. Reductions in Hydrogen Sulfide and Changes in Mitochondrial Quality Control Proteins Are Evident in the Early Phases of the Corneally Kindled Mouse Model of Epilepsy *International journal of molecular sciences* 2022-01-27 [PMID: 35163358] (WB, Mouse)

Cho C, Zeigler M, Mizuno S Et al. Reductions in Hydrogen Sulfide Precede Onset of Mitochondrial Quality Control in the Corneal Kindled Mouse Model of Epilepsy *Preprints* 2021-10-28 [PMID: 35163358] (WB, Mouse)

Frankowski H, Yeboah F, Berry B et al. Knock-Down of HDAC2 in Human Induced Pluripotent Stem Cell Derived Neurons Improves Neuronal Mitochondrial Dynamics, Neuronal Maturation and Reduces Amyloid Beta Peptides *International Journal of Molecular Sciences* 2021-03-03 [PMID: 33802405] (WB, Human)

Frankowski H, Yeboah F, Berry B, et al. Histone Deacetylase 2 (HDAC2) influences maturation and mitochondrial dynamics in human induced pluripotent stem cell derived neurons *bioRxiv* 2021-01-19

Frangez , Seyed Jafari S, Hunger R, Simon H Loss of Concurrent Regulation of the Expression of BIF-1, BAX, and Beclin-1 in Primary and Metastatic Melanoma *Biochemistry Moscow* 2020-10-01 [PMID: 33202207]

FrangeZ Z, Fernandez-Marrero Y, Stojkov D et al. BIF-1 inhibits both mitochondrial and glycolytic ATP production: its downregulation promotes melanoma growth *Oncogene* 2020-06-01 [PMID: 32493957] (IHC-P, Human)

Riera, AM;Martinez, CI;Itskanov, S;Steffen, J;Roach, B; Dynamin-2 controls phagophore maturation *bioRxiv* 2019-09-02 (WB, ICC/IF)

Cho SG, Xiao X, Wang S et al Bif-1 Interacts with Prohibitin-2 to Regulate Mitochondrial Inner Membrane during Cell Stress and Apoptosis. *J Am Soc Nephrol.* 2019-07-01 [PMID: 31126972] (WB, IP, Human)

Details:

Citation using the Azide Free version of this antibody.

Raimondi M, Cesselli D, Di Loreto C et al. USP1 (ubiquitin specific peptidase 1) targets ULk1 and regulates its cellular compartmentalization and autophagy. *Autophagy.* 2018-10-18 [PMID: 30335599] (ICC/IF, Human)

Wang DB, kinoshita C, kinoshita Y et al. Neuronal Susceptibility to Beta-Amyloid Toxicity and Ischemic Injury Involves Histone Deacetylase-2 Regulation of Endophilin-B1. *Brain Pathol.* 2018-07-20 [PMID: 30028551] (WB, Mouse)

Serfass JM, Takahashi Y, Zhou Z et al. Endophilin B2 facilitates endosome maturation in response to growth factor stimulation, autophagy induction, and influenza A virus infection *J. Biol. Chem.* 2017-06-16 [PMID: 28455444] (ICC/IF, WB, Human)

More publications at <http://www.novusbio.com/NBP2-24733>



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Products Related to NBP2-24733

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]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

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