

# Product Datasheet

## MAP1B [p Thr1265] Antibody - SuperBUGS - BSA Free NBP1-42827

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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**NBP1-42827**

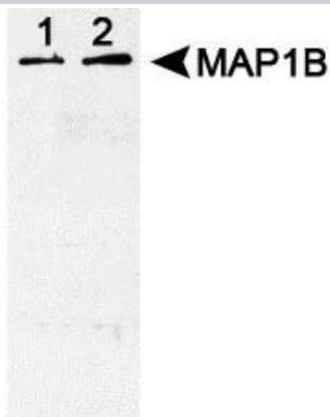
MAP1B [p Thr1265] Antibody - SuperBUGS - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	0.12 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS
Target Molecular Weight	320 kDa
Product Description	
Host	Rabbit
Gene ID	4131
Gene Symbol	MAP1B
Species	Human, Mouse, Rat, Chicken, Fish, Monkey, Reptile, Xenopus
Reactivity Notes	Use in Monkey reported in scientific literature (PMID:22654911).
Marker	Neuronal Marker
Specificity/Sensitivity	Phosphorylated Thr1265 on MAP1B (Thr1261 in rat).
Immunogen	Phosphopeptide made to a C-terminal portion of rat MAP1B. [Swiss-Prot# P15205]
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen
Recommended Dilutions	Western Blot 1:1000-1:3000, Immunohistochemistry 1:1000, Immunocytochemistry/ Immunofluorescence 1:200, Immunohistochemistry-Frozen 1:1000
Application Notes	<p>This MAP1B [p Thr1265] antibody (also known as SuperBUGS) is useful for Western blot, Immunocytochemistry/Immunofluorescence and Immunohistochemistry on frozen sections. In WB a band can be seen at ~320 kDa. Recommended Blocking Buffer for ICC/IF and IHC: 5% (v/v) normal horse serum, 5% (v/v) normal goat serum, 0.2% (w/v) L-lysine, 0.2% (v/v) Triton X-100 in PBS pH 7.2</p> <p>The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.</p>

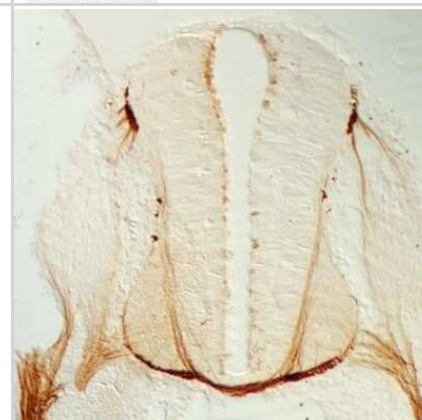


## Images

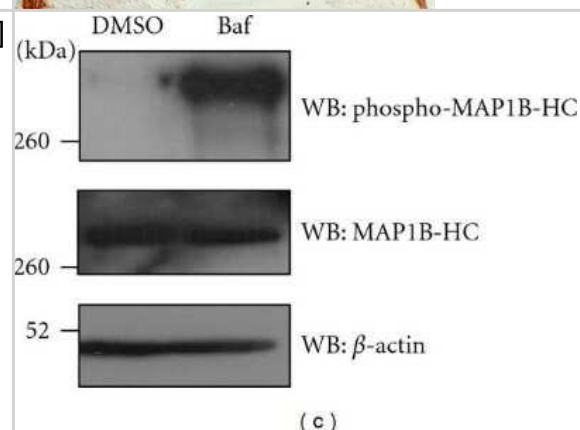
Western Blot: MAP1B [p Thr1265] Antibody - SuperBUGS [NBP1-42827]  
- Analysis of phosphorylated MAP1B in chick embryos (lane 1) and rat neonatal brain (lane 2).



Immunohistochemistry: MAP1B [p Thr1265] Antibody - SuperBUGS [NBP1-42827] - Immunohistochemical analysis of rat spinal cord transverse section from an E12 embryo.



Western Blot: MAP1B [p Thr1265] Antibody - SuperBUGS [NBP1-42827]  
- Western blot analysis of p62, Nbr1, MAP1B-HC, and MAP1B-LC1 protein levels following blockage of autophagic protein degradation. Phospho-MAP1B-HC is degraded by autophagy. Upon blockage of autophagic degradation with Bafilomycin A1: (Baf), levels of phospho-MAP1B-HC increase compared with levels of total MAP1B-HC. Image collected and cropped by CiteAb from the following publication (<https://www.hindawi.com/journals/ijcb/2012/208014/>), licensed under a CC-BY license.



## Publications

Su P, Tian Y, Yin C, Wang X et Al. MACF1 promotes osteoblastic cell migration by regulating MAP1B through the GSK3 $\beta$ /TCF7 pathway Bone 2021-10-26 [PMID: 34700040]

Jisook Moon, Sigrid C. Schwarz, Hyun Seob Lee, Jun Mo Kang, Young Eun Lee, Bona Kim, Mi Young Sung, Günter Höglinger, Florian Wegner, Jin Su Kim, Hyung Min Chung, Sung Woon Chang, Kwang Yul Cha, Kwang Soo Kim, Johannes Schwarz Preclinical Analysis of Fetal Human Mesencephalic Neural Progenitor Cell Lines: Characterization and Safety In Vitro and In Vivo Stem Cells Translational Medicine 2016-09-02 [PMID: 28191758]

Yan Guo, Pan Xiang, Xiaojiao Sun, Wei Liu, Jiafeng Zhou, Bin Yin, Lin Hou, Boqin Qiang, Huiliang Li, Pengcheng Shu, Xiaozhong Peng Docking protein 6 (DOK6) selectively docks the neurotrophic signaling transduction to restrain peripheral neuropathy Signal Transduction and Targeted Therapy 2024-02-14 [PMID: 38351062]

Marchbank K, Waters S, Roberts RG et al. Marchbank K, Waters S, Roberts RG et al. MAP1B Interaction with the FW Domain of the Autophagic Receptor Nbr1 Facilitates Its Association to the Microtubule Network Int J Cell Biol 2012-05-10 [PMID: 22654911] (WB, Monkey)

Details:

Chlorocebus sabaeus (Green monkey)

Ketschek A, Jones S, Spillane M et al. Nerve growth factor promotes reorganization of the axonal microtubule array at sites of axon collateral branching Dev Neurobiol 2015-04-02 [PMID: 25846486] (ICC/IF, Chicken)

Ma QL, Zuo X, Yang F et al. Loss of MAP Function Leads to Hippocampal Synapse Loss and Deficits in the Morris Water Maze with Aging. J. Neurosci. 2014-05-21 [PMID: 24849348] (IHC-Fr, WB, Mouse)

Capoccia BJ, Jin RU, Kong YY et al. The ubiquitin ligase Mindbomb 1 coordinates gastrointestinal secretory cell maturation J Clin Invest 2013-04-01 [PMID: 23478405] (ICC/IF, Mouse, Human)

Pimentel HI da CA. Glycogen synthase kinase 3[ $\beta$ ] modulation in axonal regeneration. 2011 Universidade de Aveiro. 2011-01-01

Tymanskyj SR, Lin S, Gordon-Weeks PR. Evolution of the spatial distribution of MAP1B phosphorylation sites in vertebrate neurons. J Anat. 2010-04-09 [PMID: 20408908] (IHC-Fr, ICC/IF, WB, Xenopus, Reptile, Rat, Chicken, Fish)

Trivedi N, Marsh P, Goold RG, Wood-Kaczmar A, Gordon-Weeks PR. Glycogen synthase kinase-3 $\beta$  phosphorylation of MAP1B at Ser1260 and Thr1265 is spatially restricted to growing axons. J Cell Sci;118(Pt 5):993-1005. 2005-03-01 [PMID: 15731007] (IHC-Fr, WB, ICC/IF, Rat)

Scales TM, Lin S, Kraus M, Goold RG, Gordon-Weeks PR. Nonprimed and DYRK1A-primed GSK3  $\beta$ -phosphorylation sites on MAP1B regulate microtubule dynamics in growing axons. J Cell Sci;122(Pt 14):2424-35. 2009-07-15 [PMID: 19549690] (IHC-Fr, WB, Rat)





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### **Products Related to NBP1-42827**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-42827H	MAP1B [p Thr1265] Antibody [HRP] - SuperBUGS

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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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