Product Datasheet

MAP2 Antibody (5H11) - BSA Free
NBP1-92711

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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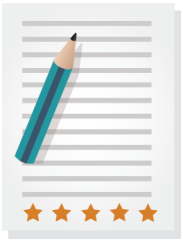
Updated 2/21/2025 v.20.1



NBP1-92711

MAP2 Antibody (5H11) - BSA Free

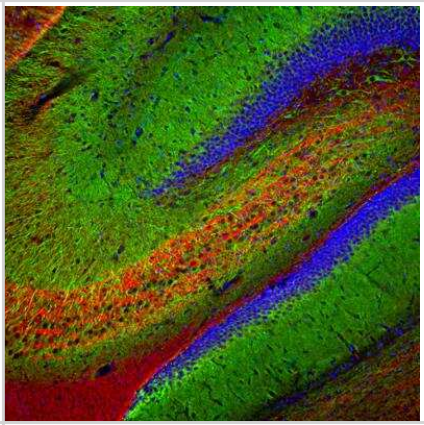
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	5H11
Preservative	0.035% Sodium Azide
Isotype	IgG2b
Purity	Protein G purified
Buffer	50% PBS, 50% glycerol
Target Molecular Weight	199 kDa

Product Description	
Host	Mouse
Gene ID	4133
Gene Symbol	MAP2
Species	Human, Mouse, Rat, Bovine, Monkey
Reactivity Notes	Monkey reactivity reported in scientific literature (Mortazavi F et al).
Marker	Neuronal Dendritic Marker
Specificity/Sensitivity	Note that since the epitope for this antibody in within the projection domain found only in MAP2A and MAP2B, and so the antibody does not bind to the lower molecular weight MAP2C and MAP2D isoforms which lack this region.
Immunogen	MAP2 Antibody (5H11) was developed against full length purified bovine protein, epitope mapped to projection domain of human sequence, amino acids 1057-1588 using MAP2 Projection Domain 3.

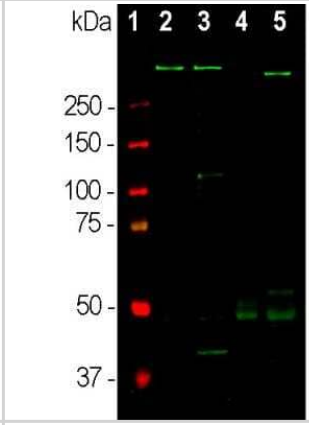
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry Free-Floating
Recommended Dilutions	Western Blot 1:10000, Immunohistochemistry 1:1000, Immunocytochemistry/ Immunofluorescence 1:1000, Immunohistochemistry Free-Floating
Application Notes	This MAP2 (5H11) antibody is useful for Immunocytochemistry/Immunofluorescence, Immunohistochemistry, and Western blot, where a band can be seen at approximately 280 kDa. ICC/IF reported in a verified customer review.

Images

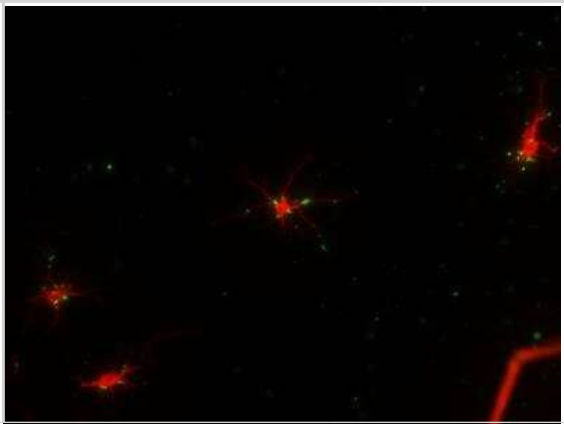
Immunohistochemistry Free-Floating: MAP2 Antibody (5H11) [NBP1-92711] - Analysis of rat hippocampus section stained with mouse mAb to MAP2, NBP1-92711, dilution 1:5,000 in green, and costained with rabbit pAb to alpha-internexin, dilution 1:2,000 in red. Following transcardial perfusion of rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45uM, and free-floating sections were stained with above antibodies. The NBP1-92711 antibody labels MAP2 protein in the perikarya and dendrites of the most neurons, and the alpha-internexin antibody selectively stains axons and dendrites of neuronal cells.



Western Blot: MAP2 Antibody (5H11) [NBP1-92711] - Analysis of different tissue lysates using mouse mAb to MAP2A/B (5H11), NBP1-92711, dilution 1:10,000 in green: [1] protein standard (red), [2] adult rat whole brain, [2] embryonic (E20) rat brain, [4] adult rat spinal cord, and [5] adult mouse brain lysate. A band observed at about 280 kDa corresponds to full length MAP2a and MAP2B protein. MAP2A/B is expressed heavily in brain particularly in cortical regions, but is a more minor component of spinal cord. Note that the epitope for this antibody in within the projection domain, and so the antibody does not bind to the lower molecular weight MAP2C and MAP2D isoforms which lack this region.



Immunocytochemistry/Immunofluorescence: MAP2 Antibody (5H11) [NBP1-92711] - Single cultured astrocytes stained with MAP2 (red) and Myelin (green). Image from a verified customer review.



Publications

Zagozewski J, Borlase S, Guppy BJ Et al. Combined MEK and JAK/STAT3 pathway inhibition effectively decreases SHH medulloblastoma tumor progression Commun Biol 2022-07-14 [PMID: 35835937] (IHC-P, Human)

Details:
Citation using the Alexa Fluor 532 version of this antibody.

Mortazavi F, Stankiewicz A, Zhdanova I Looking through Brains with Fast Passive CLARITY: Zebrafish, Rodents, Non-human Primates and Humans Bio Protoc 2021-03-03 [PMID: 33654828]

Woo E, Datta D, Arnsten AFT Glutamate Metabotropic Receptor Type 3 (mGlu3) Localization in the Rat Prelimbic Medial Prefrontal Cortex Frontiers in neuroanatomy 2022-04-04 [PMID: 35444520] (ICC/IF, Rat)

Tibshirani M, Tradewell ML, Mattina KR et al. Cytoplasmic sequestration of FUS/TLS associated with ALS alters histone marks through loss of nuclear protein arginine methyltransferase 1. Hum. Mol. Genet. 2014-09-30 [PMID: 25274782]

Siddoway B, Hou H, Yang H et al. Synaptic activity bidirectionally regulates a novel sequence-specific S-Q phosphoproteome in neurons. J Neurochem. 2013-10-13 [PMID: 24117848] (ICC/IF, Rat)

Shim JH, Lee TR, Shin DW. Enrichment and Characterization of Human Dermal Stem/Progenitor Cells by Intracellular Granularity. Stem Cells Dev 2013-01-22 [PMID: 23336432]

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NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP2-27231	Mouse IgG2b Isotype Control (MPC-11)
NBP1-92711F	MAP2 Antibody (5H11) [FITC]

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