

Product Datasheet

MAP2 Antibody (4H5) - BSA Free NBP2-25156

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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NBP2-25156

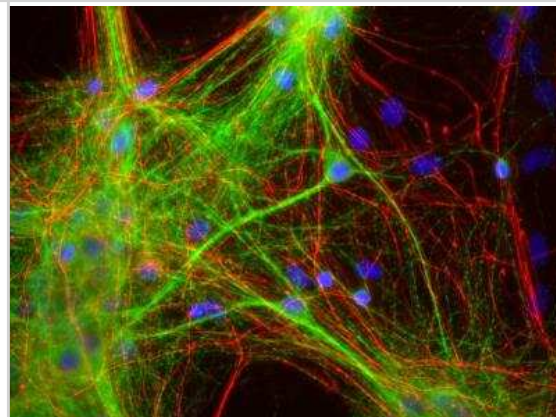
MAP2 Antibody (4H5) - BSA Free

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	4H5
Preservative	0.035% Sodium Azide
Isotype	IgG1
Purity	Immunogen affinity 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
Marker	Neuronal Dendritic Marker
Specificity/Sensitivity	MAP2 Antibody (4H5) will be reactive to isoforms 1(MAP2B) and isoform 3 (MAP2A).
Immunogen	MAP2 Antibody (4H5) was developed against full length purified bovine protein, epitope mapped to projection domain of human sequence, between amino acids 631 and 1056.
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunohistochemistry Free-Floating
Recommended Dilutions	Western Blot 1:10000, Immunohistochemistry 1:1000, Immunocytochemistry/ Immunofluorescence 1:1000, Immunohistochemistry-Paraffin 1:300, Immunohistochemistry Free-Floating 1:2000
Application Notes	This MAP2 (4H5) antibody is useful for Immunocytochemistry/Immunofluorescence, Immunohistochemistry, and Western Blot, where a band can be seen at ~280 kDa. Use in IHC-P reported in verified customer review.

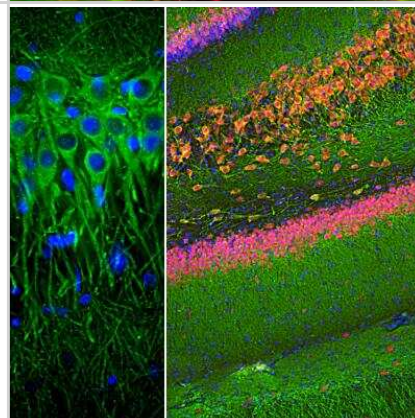


Images

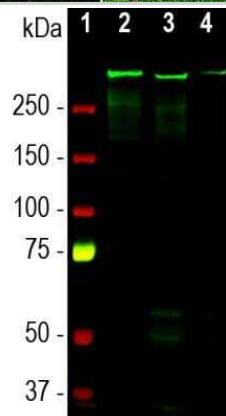
Immunocytochemistry/Immunofluorescence: MAP2 Antibody (4H5) [NBP2-25156] - Mixed neuron and glia cultures stained with NBP2-25156 (green), and NB300-135 rabbit antibody to NF-H (red) and DNA (blue). NBP2-25156 reveals strong cytoplasmic staining for of dendrites and perikarya, which does not overlap with the NF-H antibody, which primarily binds to axons.



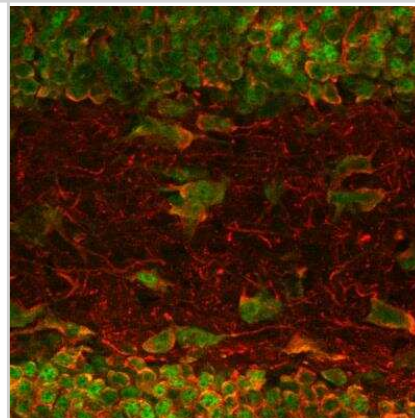
Immunohistochemistry Free-Floating: MAP2 Antibody (4H5) [NBP2-25156] - Analysis of a rat hippocampus section stained with mouse mAb to MAP2, NBP2-25156, dilution 1:2,000 in green, and costained with rabbit pAb to FOX3/NeuN, dilution 1:2,000 in red. Following transcardial perfusion of rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45uM, and free-floating sections were stained with above antibodies. The NBP2-25156 antibody labels MAP2 protein in the perikarya and dendrites of most neurons while the FOX3/NeuN antibody selectively stains nuclei and proximal soma of neuronal cells.



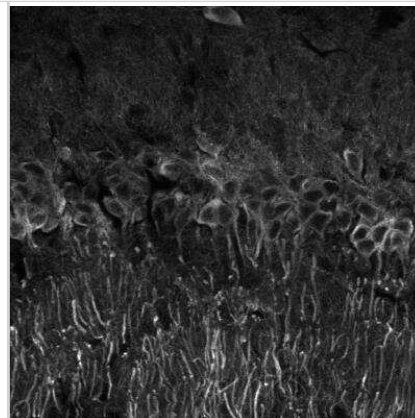
Western Blot: MAP2 Antibody (4H5) [NBP2-25156] - Analysis of tissue and cell lysates using mouse mAb to MAP2, NBP2-25156, dilution 1:10,000 in green: [1] protein standard (red), [2] rat brain, [3] mouse brain, and [4] embryonic rat cortical neuron-glia cell lysate. A band at about 280 kDa corresponds to the MAP2A and MAP2B proteins.



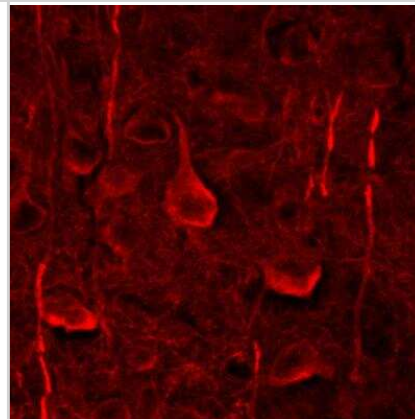
Immunohistochemistry-Paraffin: MAP2 Antibody (4H5) [NBP2-25156] - Analysis of MAP2 in a 1% PFA fixed mouse brain section using anti-MAP2 (red) and NeuN (green) antibodies. Image from verified customer review.



Immunohistochemistry-Paraffin: MAP2 Antibody (4H5) [NBP2-25156] - Staining in mouse brain. Image from a verified customer review.



Immunohistochemistry-Paraffin: MAP2 Antibody (4H5) [NBP2-25156] - Staining of a 1% PFA fixed mouse cortical region section with anti-MAP 2 (dilution 1:300; Alexa 568 red). Image from a verified customer review.



Publications

Wakazono Y, Midorikawa R, Takamiya K Temporal and quantitative analysis of the functional expression of Ca²⁺-permeable AMPA receptors during LTP Neuroscience Research 2023-07-01 [PMID: 37429464]

Zhao X, Glass Z, Chen J et al. mRNA Delivery Using Bioreducible Lipidoid Nanoparticles Facilitates Neural Differentiation of Human Mesenchymal Stem Cells Adv Healthc Mater 2020-08-19 [PMID: 32815325] (ICC/IF)

Alshammari MA, Alshammari TK, Laezza F. Improved Methods for Fluorescence Microscopy Detection of Macromolecules at the Axon Initial Segment. Front Cell Neurosci. 2016-02-24 [PMID: 26909021] (IHC-FrFI, IF/IHC, Mouse)



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Products Related to NBP2-25156

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
H00004133-P01-10ug	Recombinant Human MAP2 GST (N-Term) Protein

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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