

Product Datasheet

MAP2 Antibody (2C4) - BSA Free NBP2-50032

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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NBP2-50032

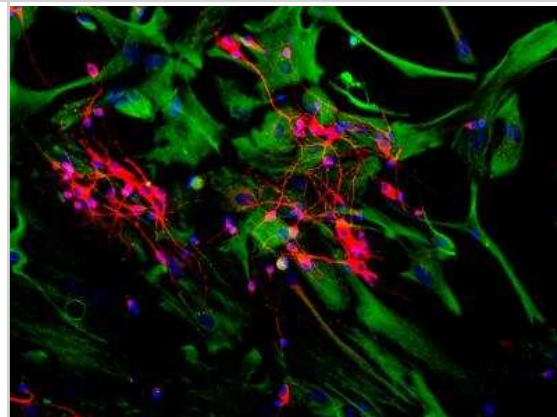
MAP2 Antibody (2C4) - BSA Free

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	2C4
Preservative	5mM 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
Specificity/Sensitivity	This antibody will react with all known MAP2 isoforms.
Immunogen	MAP2 Antibody (2C4) was developed against full length recombinant human MAP2D. [UniProt# P11137]
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:5000 - 1:10000, Immunohistochemistry 1:5000 - 1:10000, Immunocytochemistry/ Immunofluorescence 1:5000 - 1:10000
Application Notes	In Western blot, the strong bands running at about 280 kDa corresponds to MAP2A/B and bands running at 70 kDa correspond to MAP2C/D. Disclaimer note: 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.

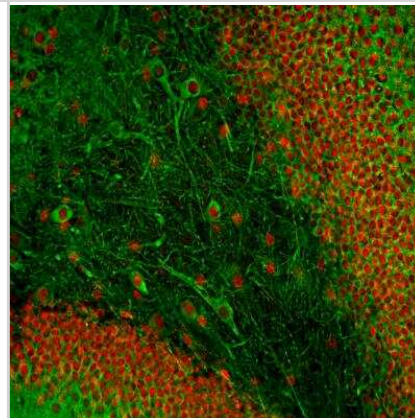


Images

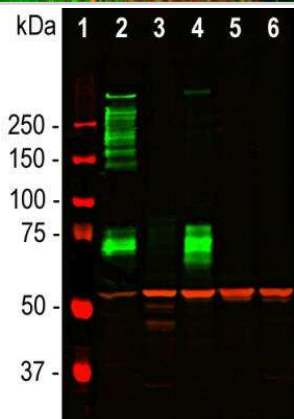
Immunocytochemistry/Immunofluorescence: MAP2 Antibody (2C4) [NBP2-50032] - Mixed neuron and glia cultures stained with NBP2-50032 (red) and chicken antibody to Vimentin (green) and DNA (blue). NBP2-50032 reveals strong cytoplasmic staining of dendrites and perikarya of neuronal cells, while Vimentin was visualized in astrocytes and fibroblasts.



Immunocytochemistry/Immunofluorescence: MAP2 Antibody (2C4) [NBP2-50032] - Analysis of adult rat hippocampus section stained with mouse mAb to MAP2A/B/C/D, NBP2-50032, dilution 1:5,000 in green, and chicken pAb to FOX2, dilution 1:2,000, in red. Following transcardial perfusion of rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45 μ M, and free-floating sections were stained with above antibodies. NBP2-50032 antibody labels all isoforms of the MAP2 protein which are found in the perikarya and dendrites of neurons. The FOX2 antibody stains the nuclei of a subset of neuronal cells.



Western Blot: MAP2 Antibody (2C4) [NBP2-50032] - Analysis of tissue and cell lysates using mouse mAb to MAP2C/D, NBP2-50032, dilution 1:5,000 in green, and chicken pAb to Vimentin, dilution 1:5,000 in red. [1] protein standard (red), [2] rat whole brain lysate, [3] HeLa, [4] SH-SY5Y, [5] HEK293, and [6] NIH/3T3 cell lysates. A band at about 280 kDa corresponds to full length intact MAP2A/2B isoforms. The bands that appear at about 70kDa represent MAP2C/D isoforms. Multiple bands in between are likely to be in vivo fragments of MAP2A/B. Only the SH-SY5Y cells, which have neuronal properties express MAP2 protein. Vimentin antibody binds to vimentin protein showing a single band at ~50 kDa, which is present in all preparations.





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP2-50032

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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