

# 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**

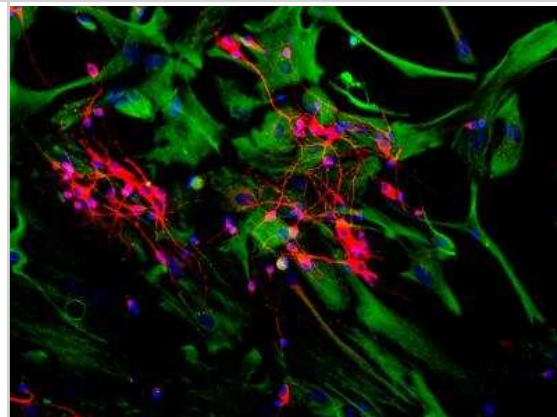
MAP2 Antibody (2C4) - BSA Free

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	
Description	Novus Biologicals Mouse MAP2 Antibody (2C4) - BSA Free (NBP2-50032) is a monoclonal antibody validated for use in IHC, WB and ICC/IF. All Novus Biologicals antibodies are covered by our 100% guarantee.
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.

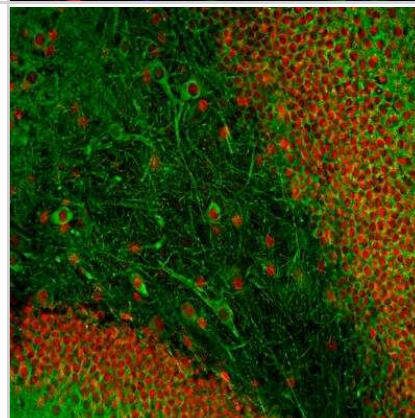


## Images

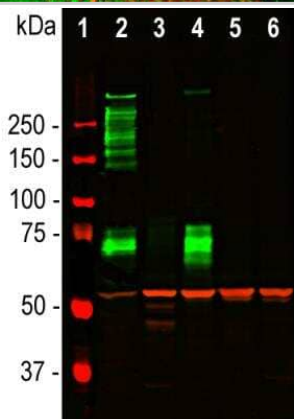
Immunocytochemistry/Immunofluorescence: MAP2 Antibody (2C4) [NBP2-50032] - Mixed neuron and glia cultures stained with NBP2-50032 (red) and chicken antibody to Vimentin (green) and DNA (blue). NBP2-50032 reveals strong cytoplasmic staining of dendrites and perikarya of neuronal cells, while Vimentin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





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### **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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