

# Product Datasheet

## NF-M Antibody (MCA-3H11) - BSA Free NBP2-31206

Unit Size: 0.05 ml

Store at -20C. Avoid freeze-thaw cycles.

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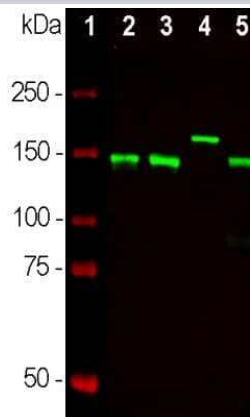
**NBP2-31206**

NF-M Antibody (MCA-3H11) - BSA Free

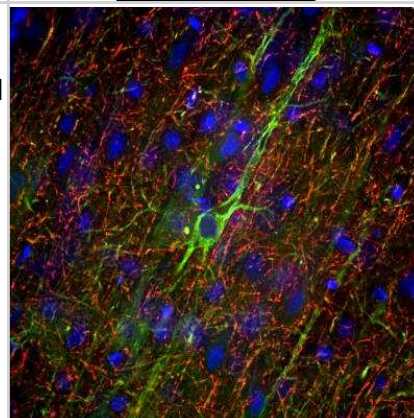
<b>Product Information</b>	
<b>Unit Size</b>	0.05 ml
<b>Concentration</b>	This product is unpurified. The exact concentration of antibody is not quantifiable.
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	MCA-3H11
<b>Preservative</b>	0.035% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Unpurified
<b>Buffer</b>	50% PBS, 50% glycerol
<b>Target Molecular Weight</b>	145-160 kDa
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	4741
<b>Gene Symbol</b>	NEFM
<b>Species</b>	Human, Mouse, Rat, Porcine, Bovine, Chicken, Equine
<b>Immunogen</b>	Recombinant fusion protein containing the extreme C-terminus of rat NF-M (KE segment), amino acids 677-845, expressed in and purified from E. coli. The so-called KE segment, is highly conserved between NF-M molecules from different species.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry Free-Floating
<b>Recommended Dilutions</b>	Western Blot 1:5000, Immunohistochemistry 1:500, Immunocytochemistry/ Immunofluorescence 1:500, Immunohistochemistry Free-Floating 1:5000
<b>Application Notes</b>	NF-M is the neurofilament middle or medium molecular weight polypeptide and runs on SDS-PAGE gels at ~145-160 kDa, with some variability across species. Users should titrate the antibody to determine the optimal concentration for their experimental system.

## Images

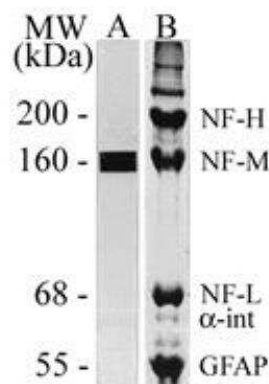
Western Blot: NF-M Antibody (MCA-3H11) [NBP2-31206] - Analysis of neuronal tissue lysates using mouse NF-M mAb, dilution 1:10,000 (Green): [1] protein standard (red), [2] rat spinal cord, [3] mouse spinal cord, [4] cow spinal cord, [5] rat sciatic nerve. Strong bands at 145kDa correspond to rodent NF-M while that at about 160kDa corresponds to the significantly larger bovine NF-M protein.



Immunohistochemistry Free-Floating: NF-M Antibody (MCA-3H11) [NBP2-31206] - Analysis of adult rat frontal cortex section stained with mouse neurofilament NF-M mAb, dilution 1:5,000 (Green), and costained with chicken neurofilament NF-H pAb, dilution 1:5,000 (Red). Following transcathedral perfusion of rat with 4% paraformaldehyde, brain was post fixed for 24hrs, cut to 45uM, and free-floating sections were stained with above antibodies. The mouse NF-M mAb labels neuron cell bodies and dendrites of pyramidal neurons, as well as dendrites and axons of other neuronal cells, while the chicken NF-M pAb stains the network of neuronal axons only.



Western Blot: Neurofilament NF-M Antibody (MCA-3H11) [NBP2-31206] - Cytoskeletal homogenate of rat spinal cord was separated by 7.5% SDS-PAGE. Lane A: Western blot analysis of Neurofilament NF-M with NBP2-31206. Lane B: SDS-PAGE gel stained with Commassie Brilliant Blue. The bands corresponding to Neurofilament subunits NF-H, NF-M, NF-L,  $\alpha$ -internexin and GFAP are indicated.





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### **Products Related to NBP2-31206**

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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)
NBP2-46618PEP	NF-M Recombinant Protein Antigen

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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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