

# Product Datasheet

## CNPase Antibody (1H10) NBP2-50031

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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**NBP2-50031**

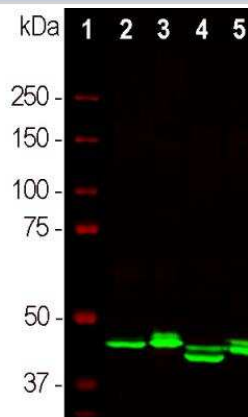
CNPase Antibody (1H10)

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	1H10
Preservative	5mM Sodium Azide
Isotype	IgG1
Purity	Immunogen affinity purified
Buffer	50% PBS, 50% glycerol
Target Molecular Weight	46,48 kDa
Product Description	
Host	Mouse
Gene Symbol	CNP
Species	Human, Mouse, Rat
Immunogen	Full length human recombinant CNPase protein expressed in and purified from E. coli. [UniProt# P09543]
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry Free-Floating
Recommended Dilutions	Western Blot 1:5000 - 1:20000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:1000 - 1:5000, Immunohistochemistry Free-Floating
Application Notes	In western blot, double bands may be detected at 46 and 48 kDa corresponding to the major isotypes of the CNP protein.

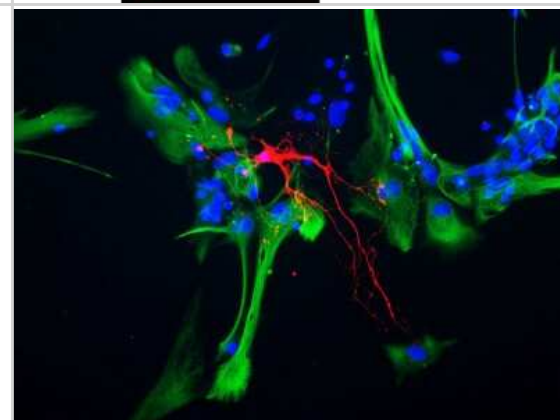


## Images

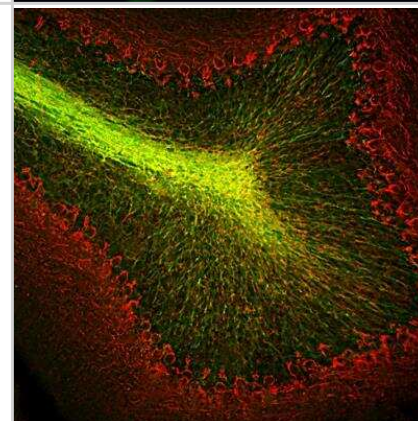
**Western Blot: CNPase Antibody (1H10) [NBP2-50031]** - Western blot analysis of different tissue lysates using mouse mAb to CNP, NBP2-50031, dilution 1:2,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord. A doublet of bands at 46 and 48kDa correspond to the major isotypes of the CNP protein.



**Immunocytochemistry/Immunofluorescence: CNPase Antibody (1H10) [NBP2-50031]** - Mixed neuron-glia cell cultures stained with NBP2-50031 (red) and polyclonal antibody against GFAP (green, NB300-141). NBP2-50031 stains strongly in oligodendrocytes, whereas GFAP labels only the intermediate filaments in astrocytes. Blue is DNA staining.



**Immunohistochemistry Free-Floating: CNPase Antibody (1H10) [NBP2-50031]** - Analysis of rat cerebellum section stained with mouse mAb to CNP, NBP2-50031, dilution 1:500 in green and costained with chicken pAb to NF-M, dilution 1:1,000, in red. The blue is DAPI staining of nuclear DNA. 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 CNP antibody specifically stains oligodendrocytes, cells that create the myelin sheath around axons. NF-M antibody labels axons of neuronal cells.





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### **Products Related to NBP2-50031**

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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)
H00001267-P01-10ug	Recombinant Human CNPase GST (N-Term) Protein

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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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