

Product Datasheet

MBP Antibody (7D2) - BSA Free NBP1-05204

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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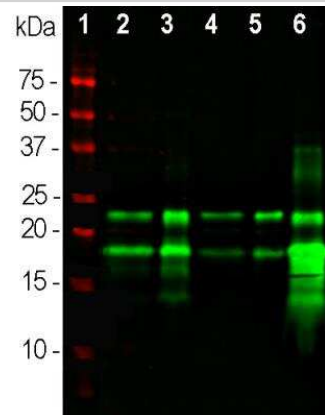
NBP1-05204

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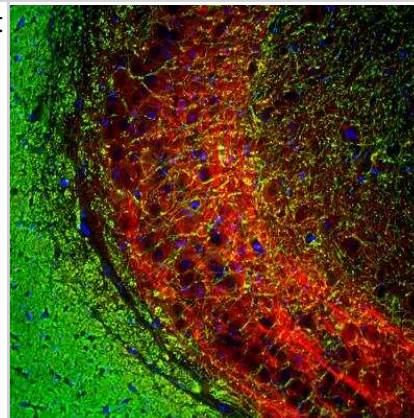
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	7D2
Preservative	5mM Sodium Azide
Isotype	IgG1
Purity	Affinity purified
Buffer	50% PBS, 50% glycerol
Target Molecular Weight	18.5/21.5 kDa
Product Description	
Description	Novus Biologicals Mouse MBP Antibody (7D2) - BSA Free (NBP1-05204) is a monoclonal antibody validated for use in IHC, WB and ICC/IF. Anti-MBP Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	4155
Gene Symbol	MBP
Species	Human, Mouse, Rat, Porcine, Bovine, Equine
Marker	Oligodendrocyte Marker, Myelin Marker
Specificity/Sensitivity	The MBP Antibody (7D2) antibody binds only the 21.5kDa and 18.5kDa rat MBP isotypes, but all four isotypes of human and bovine MBP.
Immunogen	Purified myelin basic protein isolated from bovine brain, epitope maps to the peptide AEGQRPGFGYGGGRASDYKSAHKGFKGVDAQGTLISKIFKLG, amino acids 145-184 of the human 21.5kDa sequence.
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:5000-1:10000, Immunohistochemistry 1:10000, Immunocytochemistry/ Immunofluorescence 1:2000-5000
Application Notes	This Myelin Basic Protein (7D2) antibody is useful for Immunocytochemistry/Immunofluorescence and Western blot, where a band can be seen at ~21.5 kDa.

Images

Western Blot: MBP Antibody (7D2) [NBP1-05204] - Analysis of different tissue lysates using mouse mAb to MBP, NBP1-05204, dilution 1:10,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, [6] cow spinal cord. Bands at 21.5kDa and 18.5kDa are the two larger transcripts from the MBP gene, showing that the epitope of this antibody depends on the sequence encoded by exon 2. Note that monoclonal NBP1-05203 binds all four rat MBP transcripts running at 21.5kDa, 18.5kDa, 17kDa and 14kDa, so that this antibody binds to the core sequence of human and rodent MBP.



Immunohistochemistry: MBP Antibody (7D2) [NBP1-05204] - Analysis rat brain hippocampal section stained with mouse mAb to myelin basic protein (MBP), NBP1-05204, dilution 1:5,000 in green, and costained with rabbit pAb to NF-M, RPCA-NF-M, dilution 1:2,000, in red. The MBP antibody stains myelin sheathes around axons, while the NF-M antibody labels dendrites and axons of neuronal cells.



Publications

Xie Q, Zhang Y, Zhang J et al. Promotion effect of the blend containing 2'-FL, OPN and DHA on oligodendrocyte progenitor cells myelination in vitro *Frontiers in nutrition* 2022-11-10 [PMID: 36438761] (IF/IHC, Rat)

Prukop T, Wernick S, Boussicault L et al. Synergistic PXT3003 therapy uncouples neuromuscular function from dysmyelination in male Charcot-Marie-Tooth disease type 1A (CMT1A) rats *J. Neurosci. Res.* 2020-06-26 [PMID: 32588471] (WB, Rat)

Hauser J, Sultan S, Rytz A et al. A blend containing docosahexaenoic acid, arachidonic acid, vitamin B12, vitamin B9, iron and sphingomyelin promotes myelination in an in vitro model *Nutr Neurosci* 2019-02-26 [PMID: 30806182] (ICC/IF, Rat)



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Products Related to NBP1-05204

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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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