

Product Datasheet

MBP Antibody (7G7) - BSA Free NBP1-05203

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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Publications: 6

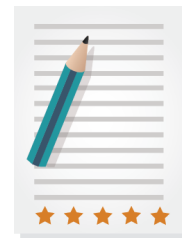
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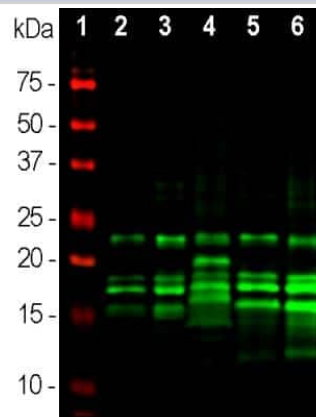
NBP1-05203

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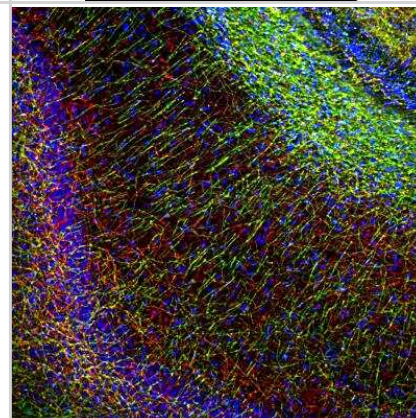
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	7G7
Preservative	5mM Sodium Azide
Isotype	IgG1
Purity	Affinity purified
Buffer	50% PBS, 50% glycerol
Target Molecular Weight	19 kDa
Product Description	
Description	Novus Biologicals Mouse MBP Antibody (7G7) - BSA Free (NBP1-05203) is a monoclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-MBP Antibody: Cited in 6 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
Reactivity Notes	This peptide is invariant in rat, mouse, cow and many other species, so this antibody will have wide applicability. TMW ranges are 14 - 21.5 kDa (rodent) and 17.2 - 21.5 kDa (human).
Marker	Oligodendrocyte Marker, Myelin Marker
Specificity/Sensitivity	The MBP Antibody (7G7) antibody binds all four of the CNS MBP isoforms, so that the epitope for the antibody is located in the core shared by all four gene products.
Immunogen	Purified myelin basic protein isolated from bovine brain, epitope is in peptide TPPPSQGKG, amino acids 125-133 of the human 21.5kDa sequence.
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation
Recommended Dilutions	Western Blot 1:10000-1:20000, Immunohistochemistry 1:10000, Immunocytochemistry/ Immunofluorescence 1:2000-1:5000, Immunoprecipitation, Immunohistochemistry-Frozen
Application Notes	Use in Immunoprecipitation reported in scientific literature (PMID:34880248). This Myelin Basic Protein (7G7) antibody is useful for Immunocytochemistry/Immunofluorescence and Western blot. In WB bands can be seen at ~18 and 21.5 kDa. Use in IHC-Fr was reported in scientific literature (PMID: 26482371)..

Images

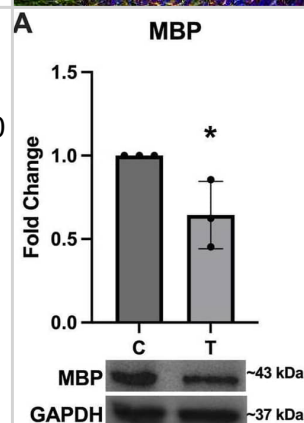
Western Blot: MBP Antibody (7G7) [NBP1-05203] - Analysis of different tissue lysates using mouse mAb to MBP, NBP1-05203, dilution 1:20,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] rat sciatic nerve, [5] mouse brain, [6] mouse spinal cord. Multiple bands at 14kDa, 17kDa, 18.5kDa to 21.5kDa are the alternate transcripts of MBP. Other bands are proteolytic fragments of the MBP protein.



Immunohistochemistry: MBP Antibody (7G7) [NBP1-05203] - Analysis of rat hippocampal section stained with mouse mAb to myelin basic protein (MBP), NBP1-05203, dilution 1:5,000 in green, and costained with rabbit pAb to neurofilament NF-H, dilution 1:2,000, in red. The MBP antibody stains oligodendrocyte cell bodies and the myelin sheathes around axons, while the NF-H antibody labels the axons themselves.



Myelination protein expression is downregulated in response to ER stress. The myelination proteins (A) MBP [t (4) = 3.056, p = 0.0378], (B) PLP [t (4) = 29.84, p < 0.0001], and (C) CNPase [t (4) = 4.797, p = 0.0093] were all significantly downregulated after 24-hour exposure to 10 µg/mL tunicamycin compared to control cells. *p < 0.05; **p < 0.01; ****p < 0.0001. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/39411401>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Erratum to "Cytokine storm associated with severe COVID-19 infections: The potential mitigating role of omega-3 fatty acid triglycerides in the ICU". FASEB journal : official publication of the Federation of American Societies for Experimental Biology 2023-08-01 [PMID: 37490044]

Tseng KY, Wang HC, Cheng KF et al. Sciatic Nerve Intrafascicular Injection Induces Neuropathy by Activating the Matrix Modulators MMP-9 and TIMP-1 *Frontiers in pharmacology* 2022-05-20 [PMID: 35694244] (IHC-Fr, Rat)

Dankovich TM, Kaushik R, Olsthoorn LHM et al. Extracellular matrix remodeling through endocytosis and resurfacing of Tenascin-R *Nature communications* 2021-12-08 [PMID: 34880248] (IP)

Wu CH, Yuan XC, Gao F et al. Netrin-1 Contributes to Myelinated Afferent Fiber Sprouting and Neuropathic Pain. *Mol. Neurobiol.* 2015-10-19 [PMID: 26482371] (IHC-Fr, Rat)

Pusic AD, Kraig R. Phasic Treatment with Interferon Gamma Stimulates Release of Exosomes that Protect Against Spreading Depression *J. Interferon Cytokine Res.* 2015-06-17 [PMID: 26083947] (WB)

Pusic AD, Mitchell HM, Kunkler PE et al. Spreading depression transiently disrupts myelin via interferon-gamma signaling. *Exp. Neurol.* 2014-12-08 [PMID: 25500111] (WB, Rat)



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Products Related to NBP1-05203

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

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