

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.

www.novusbio.com



technical@novusbio.com

Publications: 6

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP1-05203

Updated 2/21/2025 v.20.1

Earn rewards for product
reviews and publications.

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NBP1-05203



NBP1-05203

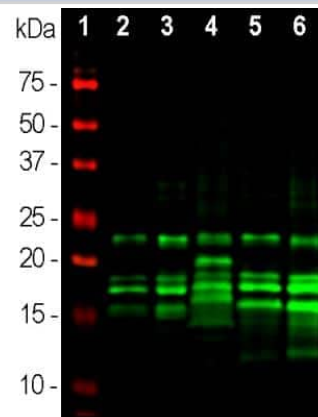
MBP Antibody (7G7) - BSA Free

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	7G7
Preservative	0.035% Sodium Azide
Isotype	IgG1
Purity	Affinity purified
Buffer	50% PBS, 50% glycerol
Target Molecular Weight	19 kDa
Product Description	
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 1:5000-1:10000, Immunohistochemistry 1:1000, Immunocytochemistry/ Immunofluorescence 1:1000, 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)..

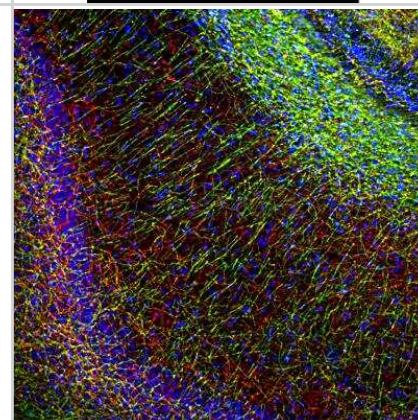


Images

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.



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)

**Novus Biologicals USA**

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP1-05203

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)
NBP2-22654	Recombinant E. coli MBP His 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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NBP1-05203

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

