

Product Datasheet

MBP Antibody (12) - BSA Free NB600-717

Unit Size: 1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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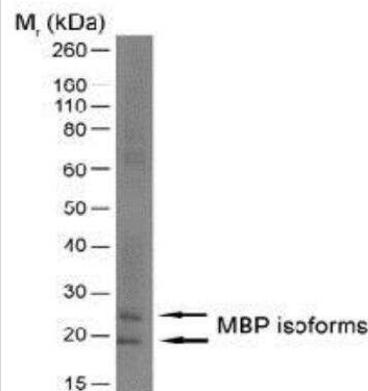
NB600-717

MBP Antibody (12) - BSA Free

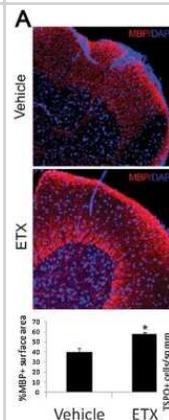
Product Information	
Unit Size	1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	12
Preservative	0.1% Sodium Azide
Isotype	IgG2a
Purity	Tissue culture supernatant
Buffer	0.1 M Tris
Product Description	
Host	Rat
Gene ID	4155
Gene Symbol	MBP
Species	Bovine
Reactivity Notes	Predicted cross-reactivities: Mouse, Rabbit, Porcine, Mammals, Human, Guinea Pig, Chicken, Rat, Sheep
Marker	Oligodendrocyte Marker, Myelin Marker
Specificity/Sensitivity	NB600-717 reacts with myelin basic protein from a wide range of species. The antibody reacts weakly with peptides ending in the Phe 91 where the 91-92 Phe-Phe bond is broken. Synthetic peptide 82-99 reacts very well, as does intact MBP. Further epitope analysis indicates binding to a region defined by amino acids 82-87 (DENPVV). Clone 12 has been reported as being suitable for use in Western blotting.
Immunogen	Bovine MBP
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Radioimmunodiffusion, Radioimmunoassay
Recommended Dilutions	Western Blot 1:100-1:2000, ELISA 1:100-1:2000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:500, Radioimmunodiffusion, Radioimmunoassay

Images

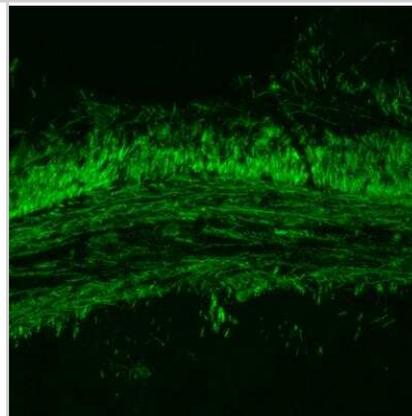
Western Blot: MBP Antibody (12) [NB600-717] - Mouse Brain Tissue lysate probed with Rat anti MBP.



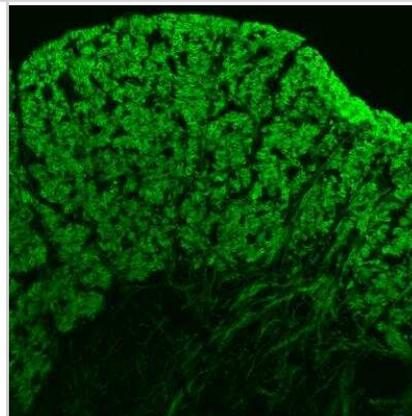
Immunocytochemistry/Immunofluorescence: MBP Antibody (12) [NB600-717] - Histological and mRNA analysis of the inflammatory cytokines in the vehicle- or etifoxine-treated mice at onset of clinical symptoms. At day 10 p.i., drug treated animals showed significant differences in MBP staining. Animals treated with etifoxine showed an increase in retention of percentage of MBP coverage (* $p = 0.001$). Image collected and cropped by CiteAb from the following publication (<https://embomolmed.embopress.org/cgi/doi/10.1002/emmm.201202124>), licensed under a CC-BY license.



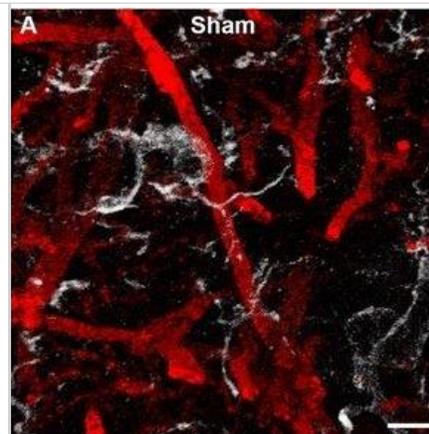
Immunohistochemistry-Frozen: MBP Antibody (12) [NB600-717] - Staining of MBP in mouse brain corpus callosum. Image from verified customer review.



Immunohistochemistry-Frozen: MBP Antibody (12) [NB600-717] - Staining of MBP in mouse spinal cord ventral white matter. Image from verified customer review.



Immunocytochemistry/ Immunofluorescence: MBP Antibody (12) [NB600-717] - Microglia processes appear to preferentially contact TBI-induced proximal axonal swellings. Representative 3D reconstructions of MBP+ myelinated axons (red) or APP+ axonal swellings (green) & Iba-1+ microglia (white) in sham-injured (a) or central fluid percussion injured (b) thalami. c Bar graph depicting the average number of Iba-1+ microglial processes contacting either MBP+ myelinated fibers in the sham animals or APP+ axonal swellings in injured animals. Graph depicts the mean \pm standard error of the mean. * $p < 0.05$. Scale bar: 5 μ m Image collected & cropped by CiteAb from the following publication (<https://jneuroinflammation.biomedcentral.com/articles/10.1186/s12974-015-0405-6>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

M Horiuchi, Y Suzuki-Hor, T Akiyama, A Itoh, D Pleasure, E Carstens, T Itoh Differing intrinsic biological properties between forebrain and spinal oligodendroglial lineage cells *J. Neurochem.*, 2017-06-09;0(0):. 2017-06-09 [PMID: 28512742]

Tetzlaff SK, Reyhan E, Layer N, Bengtson CP et Al. Characterizing and targeting glioblastoma neuron-tumor networks with retrograde tracing *Cell* 2024-12-07 [PMID: 39644898]

Kameyama T, Miyata M, Shiotani H et Al. Heterogeneity of perivascular astrocyte endfeet depending on vascular regions in the mouse brain *iScience* 2023-09-21 [PMID: 37829206]

Schubert MC, Soyka SJ, Tamimi A et Al. Deep intravital brain tumor imaging enabled by tailored three-photon microscopy and analysis *Nat Commun* 2024-09-10 [PMID: 39256378]

R Büttner, A Schulz, M Reuter, AK Akula, T Mindos, A Carlstedt, LB Riecken, SL Baader, R Bauer, H Morrison Inflammaging impairs peripheral nerve maintenance and regeneration *Aging Cell*, 2018-08-31;0(0):e12833. 2018-08-31 [PMID: 30168637]

Bradbury AM, Bagel J, Swain G et al. Combination HSCT and intravenous AAV-mediated gene therapy in a canine model proves pivotal for translation of Krabbe disease therapy *Molecular therapy : the journal of the American Society of Gene Therapy* 2023-11-11 [PMID: 37952085]

Gu X, Rahman FS, Bendale G et al. Pleiotrophin-Neuregulin1 promote axon regeneration and sorting in conduit repair of critical nerve gap injuries *Research square* 2023-11-06 [PMID: 37986821]

Kameyama T, Miyata M, Shiotani H et al. Heterogeneity of perivascular astrocyte endfeet depending on vascular regions in the mouse brain *iScience* 2023-09-01 (IHC, Mouse)

Kornelius E, Tsou SH, Chang CC et al. Liraglutide Attenuates Glucolipotoxicity-Induced RSC96 Schwann Cells' Inflammation and Dysfunction *Biomolecules* 2022-09-21 [PMID: 36291547] (Immunocytochemistry/ Immunofluorescence)

Mike JK, Wu KY, White Y et al. Defining Longer-Term Outcomes in an Ovine Model of Moderate Perinatal Hypoxia-Ischemia *Developmental Neuroscience* 2022-05-19 [PMID: 35588703] (Immunocytochemistry/ Immunofluorescence)

Le CT, Khuat LT, Caryotakis SE et al. PD-1 Blockade Reverses Obesity-Mediated T Cell Priming Impairment *Frontiers in Immunology* 2020-10-29 [PMID: 33193426] (Immunohistochemistry)

Av?ar T, elikiyapi Erdem G, Terzio?lu G, Tahir Turanli E. Investigation of neuro-inflammatory parameters in a cuprizone induced mouse model of multiple sclerosis *TURKISH JOURNAL OF BIOLOGY* 2021-10-18 [PMID: 34803461] (Immunohistochemistry)

More publications at <http://www.novusbio.com/NB600-717>



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Products Related to NB600-717

HAF005	Goat anti-Rat IgG Secondary Antibody [HRP]
F0105B	Goat anti-Rat IgG Secondary Antibody [Phycoerythrin]
NBP2-21947-0.1mg	Rat IgG2a Isotype Control (2A3)
NBP2-23253	Recombinant Human 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.

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