

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

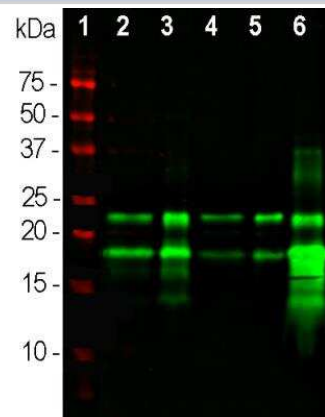
MBP Antibody (7D2) - BSA Free

| 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 | 7D2 |
| Preservative | 0.035% Sodium Azide |
| Isotype | IgG1 |
| Purity | Affinity purified |
| Buffer | 50% PBS, 50% glycerol |
| Target Molecular Weight | 18.5/21.5 kDa |
| Product Description | |
| 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 AEGQRPFGFYGGRASDYKSAHKGFGKVDAQGTLISKIFKLG, 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 1:1000, Immunocytochemistry/ Immunofluorescence 1:1000 |
| 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. |

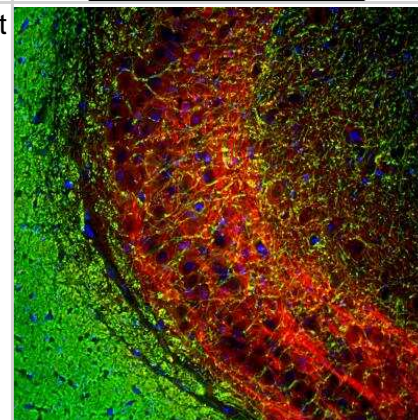


Images

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

| | |
|------------------|---|
| 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.

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