

Product Datasheet

MBP Antibody / Myelin Basic Protein (orb699741)

Catalog Number	orb699741
Category	Antibodies
Description	Myelin basic protein (MBP) is the second most abundant protein in central nervous system (CNS) myelin: it comprises 30% of the total protein and about 10% of the dry weight of myelin. It is the only structural protein found so far to be essential for formation of CNS myelin, and has been called the executive molecule of myelin . MBP can interact with a number of polyanionic proteins including actin, tubulin, calmodulin, and clathrin, and negatively charged lipids, and acquires structure on binding to them. It may act as a membrane actin-binding protein, which might allow it to participate in transmission of extracellular signals to the cytoskeleton in oligodendrocytes and tight junctions in myelin. MBP may be applicable as a marker for oligodendrogliomas. MBP/4271 recognizes an epitope in the 129-138 region of MBP, useful in clinical diagnosis to detect MBP levels.
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG2a
Conjugation	Unconjugated
Reactivity	Human
Immunogen	The epitope for this MBP antibody has been mapped to amino acids 129-138 from the human protein.
UniProt ID	P02686
Tested applications	IHC-P, WB
Dilution range	Western blot: 1-2ug/ml,Immunohistochemistry (FFPE): 1-2ug/ml for 30 minutes at RT

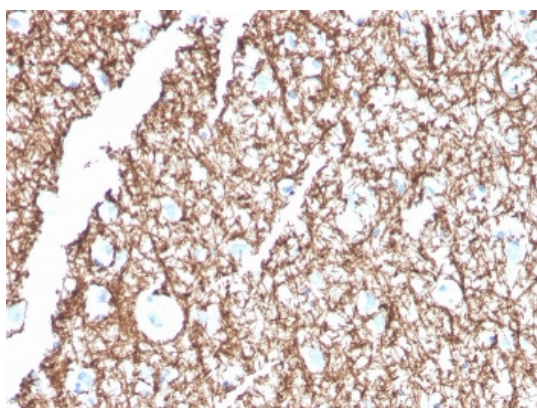
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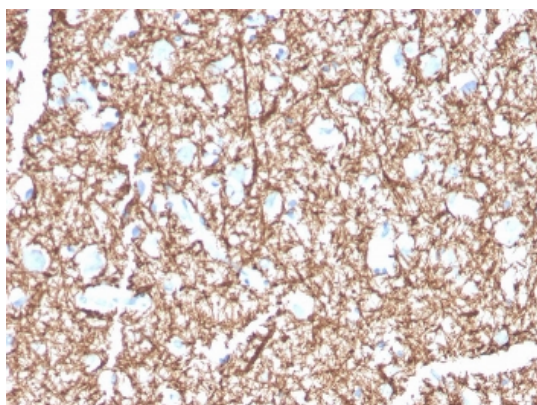
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Application notes	Optimal dilution of the MBP antibody should be determined by the researcher.
Antibody Type	Primary Antibody
Clone Number	MBP/4271
Formula	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only



IHC staining of FFPE human brain with MBP antibody. HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



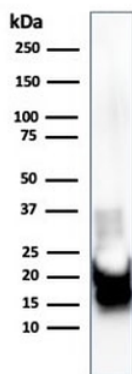
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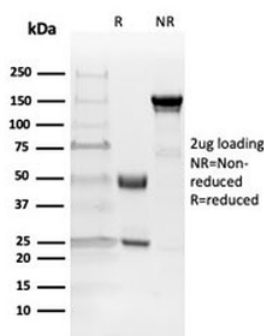
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Western blot testing of human brain lysate with MBP antibody. Isoforms may be visualized from 20~37 kDa.



SDS-PAGE analysis of purified, BSA-free MBP antibody as confirmation of integrity and purity.

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