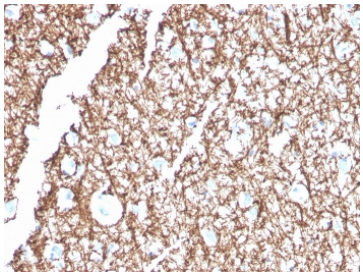
MBP Antibody [clone MBP/4271] (V8675)

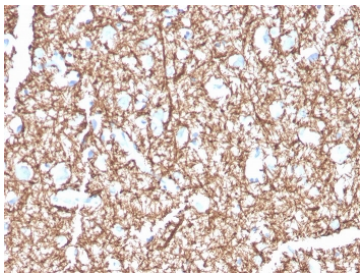
Catalog No.	Formulation	Size
V8675-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8675-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8675SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a
Clone Name	MBP/4271
Purity	Protein G affinity chromatography
UniProt	P02686
Localization	Cell surface, cytoplasm
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT
Limitations	This MBP antibody is available for research use only.



IHC staining of FFPE human brain with MBP antibody. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



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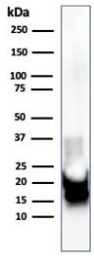
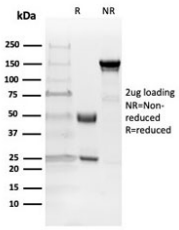


Western blot testing of human brain lysate with MBP antibody. Isoforms may be visualized from 20~37 kDa.



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

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.

Application Notes

Optimal dilution of the MBP antibody should be determined by the researcher.

Immunogen

The epitope for this MBP antibody has been mapped to amino acids 129-138 from the human protein.

Storage

Store the MBP antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).