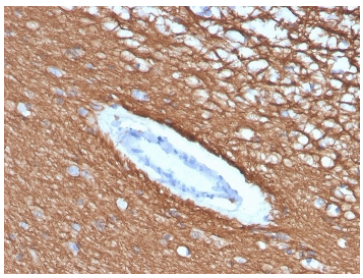
Recombinant MBP Antibody / Myelin Basic Protein [clone rMBP/4288] (V8437)

Catalog No.	Formulation	Size
V8437-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8437-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8437SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

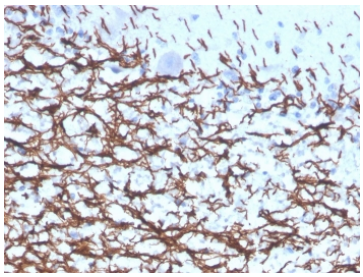
Recombinant MOUSE MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG2a, kappa
Clone Name	rMBP/4288
Purity	Protein G affinity chromatography
UniProt	P02686
Localization	Cell surface, cytoplasm
Applications	Western Blot : 2-4ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This recombinant MBP antibody is available for research use only.



IHC staining of FFPE human cerebellum with recombinant MBP antibody (clone rMBP/4288). 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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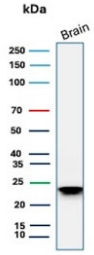
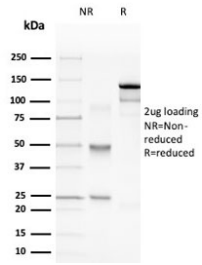


Western blot testing of human brain lysate with recombinant MBP antibody (clone rMBP/4288). Isoforms may be visualized from 20~37 kDa.



SDS-PAGE analysis of purified, BSA-free recombinant MBP antibody (clone rMBP/4288) 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.

Application Notes

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

Immunogen

A portion of amino acids 150-250 from the human protein was used as the immunogen for the recombinant MBP antibody.

Storage

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