

Mouse anti-Human Myelin Basic Protein [p Thr98] Monoclonal Antibody | anti-MBP antibody

Myelin Basic Protein [p Thr98] (Marker of Oligodendrocytes & Myelin) Mouse Monoclonal Antibody [Clone MBP/4276]

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215790	Mouse	Human	Immunohistochemistry, Western Blot, Immunofluorescence, ELISA

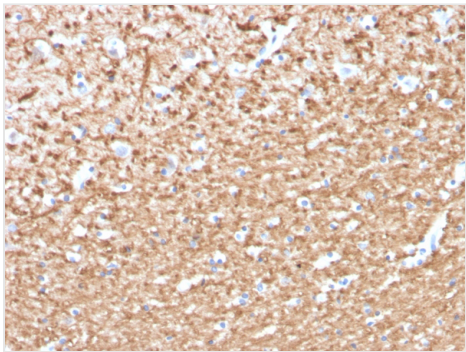
PRODUCT SYNONYMS

Myelin Basic Protein [p Thr98]; Monoclonal Antibody; Myelin Basic Protein [p Thr98] (Marker of Oligodendrocytes & Myelin) Mouse Monoclonal Antibody [Clone MBP/4276]; Myelin Basic Protein [p Thr98] (Marker of Oligodendrocytes & Myelin); GDB; Golli MBP; myelin basic protein; Hemopoietic MBP; HMBPR; HUGO; MLD; Myelin A1 Protein; basic; Myelin Deficient; Myelin membrane encephalitogenic protein; SHI; Shiverer; SP; anti-MBP antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse/IgG2a
Clone Number	MBP/4276
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Concentration	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml (varies by lot)
Applicable Applications for anti-MBP antibody	IHC (Immunohistochemistry), WB (Western Blot), IF (Immunofluorescence), ELISA
Immunogen	Synthetic peptide corresponding to human MBP when phosphorylated at threonine 98.
Cellular Localization	Myelin membrane; Peripheral membrane protein; Cytoplasmic side (of myelin)
Positive Control	Human brain or astrocytoma tissue.
Hu-chromosome Location	18q23
Unigene	551713
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C Antibody without azide: store at -20 to -80 degree C Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human brain stained with Myelin Basic Protein Mouse Monoclonal Antibody (MBP/4276).

ADDITIONAL INFORMATION

Related Product Information for anti-MBP antibody	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. Phosphorylation been shown to decrease its ability to aggregate lipid vesicles and consequently destabilising the compact structure of myelin, a destruction that has been observed in demyelinating diseases such as Multiple Sclerosis. MBP/4276 is a useful detector of phosphorylated MBP by binding to Thr98 of human MBP in the phosphorylated state.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	1162922
NCBI GeneID	4155
UniProt Accession #	P02686; Q15337; Q15338; Q15339; Q15340; A4FU54; A6NI84; A8MY86; A8MYL4; B3KY66; B7ZKS2; B7ZKS4
Molecular Weight	33,117 Da
NCBI Official Full Name	myelin basic protein
NCBI Official Synonym Full Names	myelin basic protein
NCBI Official Symbol	MBP
NCBI Protein Information	Golli-MBP; myelin basic protein; myelin A1 protein; myelin membrane encephalitogenic protein
UniProt Protein Name	Myelin basic protein
UniProt Gene Name	MBP
UniProt Synonym Gene Names	MBP
UniProt Entry Name	MBP_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.