Rabbit anti-Human Myelin Basic Protein Monoclonal Antibody | anti-MBP antibody

Myelin Basic Protein

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215394	**Rabbit**	**Human**	**Immunohistochemistry**

PRODUCT SYNONYMS

Myelin Basic Protein; Monoclonal Antibody; 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	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Clone Number	MBP/4277R
Specificity	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.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml or Purified Ab with BSA and Azide at 200ug/ml or Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
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.
Sequence Length	203
Applicable Applications for anti-MBP antibody	IHC (Immunohistochemistry)
Immunogen	Recombinant fragment (around aa 150-250) of Human MBP (exact sequence is proprietary)
Cellular Localization	Cell Surfaceand Cytoplasm
Antibody Type	Recombinant Antibody
Hu-chromosome Location	18q23
Positive Control	Human brain or Astrocytoma.
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

Application Data
Analysis of Protein Array containing more than 19,000 full-length human proteins using Myelin Basic Protein Recombinant Rabbit Antibody (MBP/4277R). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human brain stained with Myelin Basic Protein Recombinant Rabbit Antibody (MBP/4277R).

IHC (Immunohiostchemistry)
Formalin-fixed, paraffin-embedded human brain stained with Myelin Basic Protein Recombinant Rabbit Antibody (MBP/4277R).

ADDITIONAL INFORMATION

References	Boggs J M. Cellular and Molecular Life Sciences (CMLS), 2006, 63(17):1945-1961.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1162922
NCBI GeneID	4155
UniProt Accession #	P02686
Molecular Weight	14-22kDa
NCBI Official Full Name	myelin basic protein
NCBI Official Synonym Full Names	myelin basic protein
NCBI Official Symbol	MBP
NCBI Protein Information	myelin basic protein; Golli-MBP; proline-rich proteoglycan 2
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.

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