

Myelin Basic Protein clone MBP/4277R

Rabbit Monoclonal Antibody

Instruction for Use

Specification:

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 oligodendrocyte and tight junctions in myelin. MBP may be applicable as a marker for oligodendrogliomas

Availability:

Catalog No.	Contents	Volume
ILM4277-C01	MBP	0,1 ml concentrate
ILM4277-C05	MBP	0,5 ml concentrate
ILM4277-C1	MBP	1,0 ml concentrate

Intended use: For Research Use Only

Reactivity: Human, others not known

Clone: MBP/4277R

Human Gene ID: 4155

Human SwissProt: P02686

Human Unigene: 551713

Species of origin: Rabbit

Isotype: IgG

Immunogen: Recombinant fragment (around aa 150-250) of human MBP (Exact sequence is proprietary)

Control Tissue: Human Brain or astrocytoma

Staining: Cytoplasmatic

Presentation: Bioreactor Concentrate with 0.05% Azide

Application and suggested dilutions:

Pre-treatment: Heat induced epitope retrieval in 10 mM citrate buffer pH6.0 for 20 minutes is required for IHC staining on formalin-fixed, paraffin embedded tissue sections.

- Immunohistochemical staining of formalin-fixed, paraffin embedded tissue section (dilution up to 1:100-1:200)
- Western blot (1-2 µg/ml)

The optimal dilution for a specific application should be determined by the investigator.

Note: Dilution of the antibody in 10% normal goat serum followed by a Goat anti-Rabbit secondary antibody-based detection is recommended.

Storage & Stability: Store at 2-8 °C. Do not use after expiration date printed on the vial.

Reference:

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

