



Product Data Sheet

MBP Polyclonal Antibody

Catalog Number: ORF.MBPPAB-50

Product Details	
Product Name	MBP Polyclonal Antibody
Catalog Number	ORF.MBPPAB-50
Size	50 µL
Concentration	1 mg/mL
Clonality	Polyclonal
Source	Rabbit
Isotype	IgG
Purification	Antigen affinity purification

Product Description	Product Image
Myelin Basic Protein (MBP) is a major structural component of the myelin sheath in the central and peripheral nervous systems, produced by oligodendrocytes and Schwann cells. It is essential for the formation and maintenance of compact myelin, which is critical for efficient nerve impulse conduction. Beyond its classic role in the nervous system, MBP-related transcripts are also expressed in bone marrow and the immune system. These transcripts originate from the extended Golli-MBP gene, which contains three additional upstream exons in addition to the classic MBP exons. Alternative splicing from two transcription start sites—Golli and MBP—produces two transcript families: - Golli-MBP transcripts – Contain the three unique Golli exons spliced in-frame to one or more MBP exons, producing hybrid proteins with N-terminal Golli sequences linked to MBP sequences. - Classic MBP transcripts – Contain only MBP exons, producing the well-characterized myelin basic proteins. This conserved gene structure across species suggests coordinated regulation important for the functions of both MBP and Golli proteins.	Figure 1 and Figure 2 show Western blot analysis of MBP protein. Molecular weight markers (KDa) are indicated on the left: 55, 40, 35, 25, and 15. Figure 1 shows bands at approximately 40 kDa and 35 kDa. Figure 2 shows bands at approximately 40 kDa and 35 kDa.

For research applications only. Not for diagnostic or therapeutic use.

This polyclonal antibody specifically recognizes MBP and is optimized for use in Western blotting, providing sensitive and reliable detection of MBP in research applications.

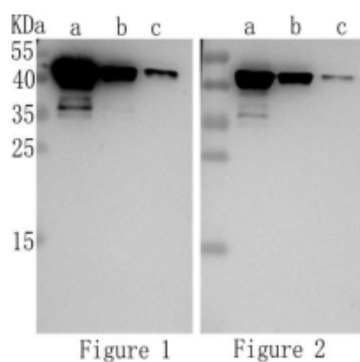
Product Specifications and Product Specific Information

Applications	WB: 1:2000 – 1:20000
Reactivity	ALL
Specificity	Recognizes Maltose Binding Protein
Immunogen	Recombinant Maltose Binding Protein
Description	Maltose binding protein (MBP), the 370 amino acid product of the E. coli mal E gene.
Uniprot	POAEX9
BiowMW	~ 40 kDa
Buffer	PBS, 50% glycerol, 1 mg/mL BSA, 1% Proclin300

Storage and Stability

	Temperature	Storage Time
Short Term	4°C	1 month
Long Term	-20°C	12 months
Avoid repeated freeze-thaw cycles.		

Product Data



MBP Polyclonal Antibody at 1:2000 (Figure 1) and 1:10000 (Figure 2) dilution
 Line a: Recombinant MBP at 100ng
 Line b: Recombinant MBP at 10 ng
 Line c: Recombinant MBP at 1 ng

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