

## Myelin Basic Protein(MBP) Rabbit pAb

CatalogNo: YN0032

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, ELISA

#### MW

- 33kD (Observed)

#### Isotype

- IgG

### Storage

#### Storage\*

-15°C to -25°C/1 year (Do not lower than -25°C)

#### Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

WB 1:500-2000

ELISA 1:5000-20000

### Basic Information

#### Clonality

Polyclonal

### Immunogen Information

#### Immunogen

Synthesized peptide derived from human protein . at AA range: 180-260

#### Specificity

MBP Polyclonal Antibody detects endogenous levels of protein.

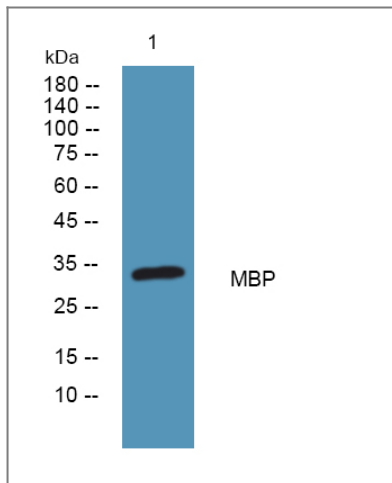
### Target Information

#### Gene name

MBP

<b>Protein Name</b>	Myelin basic protein (MBP) (Myelin A1 protein) (Myelin membrane encephalitogenic protein)		
	<b>Organism</b>	<b>Gene ID</b>	<b>UniProt ID</b>
	Human	<a href="#">4155;</a>	<a href="#">P02686;</a>
	Mouse		<a href="#">P04370;</a>
	Rat		<a href="#">P02688;</a>
<b>Cellular Localization</b>	Myelin membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasmic side of myelin.; [Isoform 3]: Nucleus . Targeted to nucleus in oligodendrocytes.		
<b>Tissue specificity</b>	MBP isoforms are found in both the central and the peripheral nervous system, whereas Golli-MBP isoforms are expressed in fetal thymus, spleen and spinal cord, as well as in cell lines derived from the immune system.		
<b>Function</b>	<p>Alternative products:Additional isoforms seem to exist,developmental stage:Expression begins abruptly in 14-16 week old fetuses. Even smaller isoforms seem to be produced during embryogenesis; some of these persisting in the adult. Expression of isoform MBP2 is more evident at 16 weeks and its relative proportion declines thereafter.,Disease:The reduction in the surface charge of citrullinated and/or methylated MBP could result in a weakened attachment to the myelin membrane. This mechanism could be operative in demyelinating diseases such as chronic multiple sclerosis (MS), and fulminating MS (Marburg disease).,Function:The classic group of MBP isoforms (isoform 4-isoform 14) are with PLP the most abundant protein components of the myelin membrane in the CNS. They have a role in both its formation and stabilization. The smaller isoforms might have an important role in remyelination of denuded axons in multiple sclerosis. The non-classic group of MBP isoforms (isoform 1-isoform 3/Golli-MBPs) may preferentially have a role in the early developing brain long before myelination, maybe as components of transcriptional complexes, and may also be involved in signaling pathways in T-cells and neural cells. Differential splicing events combined with optional post-translational modifications give a wide spectrum of isomers, with each of them potentially having a specialized function. Induces T-cell proliferation.,online information:Myelin basic protein entry,PTM:Arg-241 was found to be 6% monomethylated and 60% symmetrically dimethylated.,PTM:Several charge isomers of MBP; C1 (the most cationic, least modified, and most abundant form), C2, C3, C4, C5, C6, C7, C8-A and C8-B (the least cationic form); are produced as a result of optional PTM, such as phosphorylation, deamidation of glutamine or asparagine, arginine citrullination and methylation. C8-A and C8-B contain each two mass isoforms termed C8-A(H), C8-A(L), C8-B(H) and C8-B(L), (H) standing for higher and (L) for lower molecular weight. C3, C4 and C5 are phosphorylated. The ratio of methylated arginine residues decreases during aging, making the protein more cationic.,PTM:The N-terminal alanine is acetylated (isoform 3, isoform 4, isoform 5 and isoform 6).,sequence Caution:Contaminating sequence. The C-terminus contains a Histidine tag.,similarity:Belongs to the myelin basic protein family.,subcellular location:Cytoplasmic side of myelin.,subunit:Homodimer; isoform 3 exists as a homodimer.,tissue specificity:MBP isoforms are found in both the central and the peripheral nervous system, whereas Golli-MBP isoforms are expressed in fetal thymus, spleen and spinal cord, as well as in cell lines derived from the immune system.,</p>		

| Validation Data



Western blot analysis of lysates from KB cells, primary antibody was diluted at 1:1000, 4°over night

## Contact information

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Please scan the QR code to access additional product information:  
**Myelin Basic Protein(MBP) Rabbit pAb**

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