

#78896 Store at -20C

## Myelin Basic Protein (D8X4Q) XP® Rabbit mAb



**Cell Signaling**  
TECHNOLOGY®

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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IHC-P, IF-F, IF-IC	H M R	Endogenous	12-18	Rabbit IgG	#P02686	4155

### Product Usage Information

#### Application

Western Blotting  
Immunohistochemistry (Paraffin)  
Immunofluorescence (Frozen)  
Immunofluorescence (Immunocytochemistry)

#### Dilution

1:1000  
1:1200  
1:50  
1:50

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #62596.

### Specificity / Sensitivity

Myelin Basic Protein (D8X4Q) XP® Rabbit mAb recognizes endogenous levels of total myelin basic protein.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala185 of human myelin basic protein.

### Background

Myelin basic protein (MBP) is an abundant central nervous system (CNS) myelin membrane protein that plays an important role in nerve myelination. Myelin sheaths are multi-layered membranes derived from oligodendrocytes that increase the conduction velocity of axonal impulses. MBP helps to adhere the cytoplasmic leaflets of adjacent oligodendrocyte membranes to one another. Several splice variants of MBP are expressed in cells and the protein is modified following translation (i.e., phosphorylation, methylation), which suggests additional membrane adhesion functions (1).

### Background References

1. Harauz, G. and Boggs, J.M. (2013) *J Neurochem* 125, 334-61.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

### Applications Key

**WB:** Western Blotting **IHC-P:** Immunohistochemistry (Paraffin) **IF-F:** Immunofluorescence (Frozen)  
**IF-IC:** Immunofluorescence (Immunocytochemistry)

### Cross-Reactivity Key

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster  
**X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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