

## Basic Information

<b>Product Name</b>	Anti-Myelin basic protein/MBP Antibody	
<b>Gene Name</b>	MBP	
<b>Source</b>	Rabbit	
<b>Clonality</b>	Polyclonal	
<b>Isotype</b>	IgG	
<b>Species Reactivity</b>	human, mouse, rat, pig	
<b>Tested Application</b>	WB, IHC, IF	
<b>Contents</b>	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.	
<b>Immunogen</b>	A synthetic peptide corresponding to a sequence at the C-terminus of human Myelin Basic Protein, identical to the related rat and mouse sequences.	
<b>Concentration</b>	500 ug/ml	
<b>Purification</b>	Immunogen affinity purified.	
<b>Observed MW</b>	16-22 kDa	
<b>Dilution Ratios</b>	Western blot (WB):	1:1000-5000
	Immunohistochemistry (IHC):	1:50-400
	Immunofluorescence (IF):	1:50-400
	(Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

## Storage

12 months from date of receipt, -20°C as supplied.

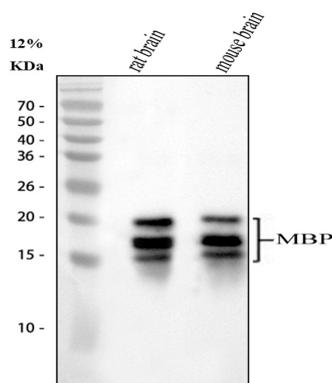
## Background Information

Myelin basic protein(MBP) is a major constituent of the myelin sheath of oligodendrocytes and Schwann cells in the central nervous system and the peripheral nervous system, respectively. It is most abundant in hemopoietic system and contains seven exons distributed over 32-34 kb. MBP isolated from MS brain may differ in charge microheterogeneity which would affect antigenic determinants. MBP is mapped to chromosome 18q22-23. Failure in this gene expression would be correlated in the central white matter with extrapyramidal system degeneration signs. Moreover, it is a candidate autoantigen in the disease multiple sclerosis.

## Reference

Anti-Myelin basic protein/MBP Antibody被引用在57文献中。

## Selected Validation Data



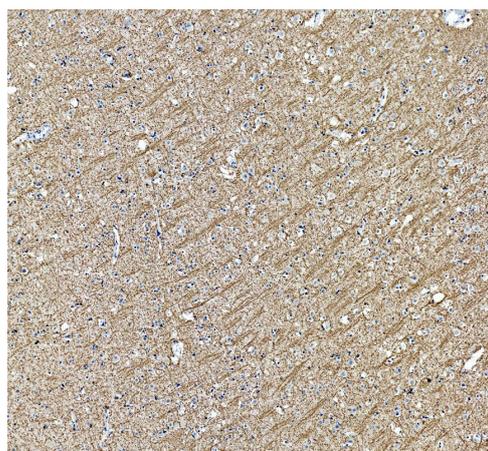
Western blot analysis of Myelin basic protein/MBP using anti-Myelin basic protein/MBP antibody (BA0094). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: rat brain tissue lysates,

Lane 2: mouse brain tissue lysates.

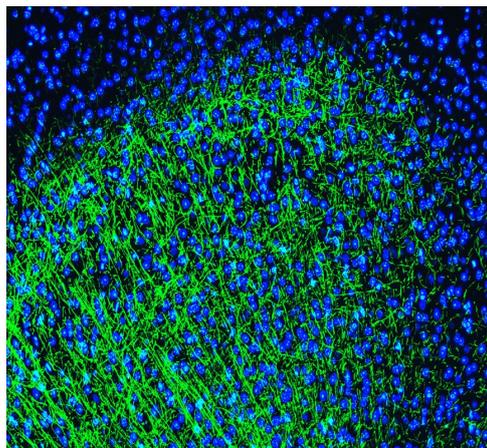
After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-Myelin basic protein/MBP antiA03957-Aen affinity purified polyclonal antibody (BA0094) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Myelin basic protein/MBP at approximately 15-22 kDa. The expected band size for Myelin basic protein/MBP is at 33 kDa.



IHC analysis of Myelin basic protein/MBP using anti-Myelin basic protein/MBP antibody (BA0094).

Myelin basic protein/MBP was detected in a paraffin-embedded section of human brain tissue. The tissue section was incubated with rabbit anti-Myelin basic protein/MBP Antibody (BA0094) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.



IF analysis of Myelin basic protein/MBP using anti-Myelin basic protein/MBP antibody (BA0094).

Myelin basic protein/MBP was detected in a paraffin-embedded section of mouse brain tissue. The tissue section was incubated with rabbit anti-Myelin basic protein/MBP Antibody (BA0094) at a dilution of 1:100. Fluoro488-conjugated Anti-rabbit IgG Secondary Antibody (green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).