

For Research Use Only

MBP Polyclonal antibody

Catalog Number: 10458-1-AP **113 Publications**



Basic Information

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| Catalog Number: 10458-1-AP | GenBank Accession Number: BC008749 | Purification Method: Antigen affinity purification |
| Concentration: 750 ug/ml | GeneID (NCBI): 4155 | Recommended Dilutions: WB 1:2000-1:16000 |
| Source: Rabbit | UNIPROT ID: P02686 | IHC 1:50-1:500 |
| Isotype: IgG | Full Name: myelin basic protein | IF-P 1:50-1:500 |
| Immunogen Catalog Number: AG0713 | Calculated MW: 33 kDa | IF-Fro 1:50-1:500 |
| | Observed MW: 14-23 kDa | |

Applications

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| Tested Applications: WB, IHC, IF-P, IF-Fro, ELISA | Positive Controls: WB : mouse brain tissue, rat brain tissue |
| Cited Applications: WB, IHC, IF | IHC : mouse brain tissue, |
| Species Specificity: human, mouse, rat | IF-P : mouse brain tissue, |
| Cited Species: human, mouse, rat, rabbit | IF-Fro : mouse brain tissue, |
| Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | |

Background Information

MBP belongs to the myelin basic protein family. The classic group of MBP isoforms (isoform 4-isoform 14) are 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. MBP has six isoforms. Catalog# 10458-1-AP is capable of recognizing multiple isoforms of MBP.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|----------------|-----------|--------------|-------------|
| Wei Cai | 36170234 | Autophagy | IF,FC |
| Guangcong Peng | 34562473 | Brain Res | IF |
| Jiuyang Ding | 34562559 | Toxicol Lett | IHC |

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

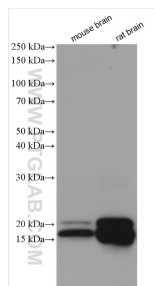
T: 4006900926

E: Proteintech-CN@ptglab.com

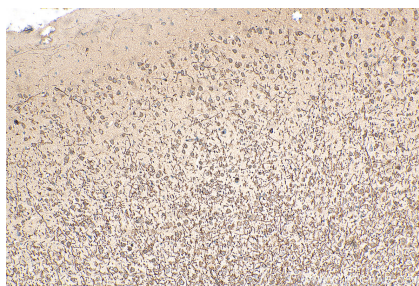
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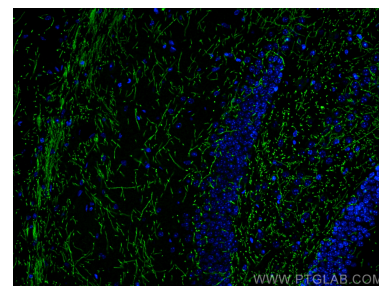
Selected Validation Data



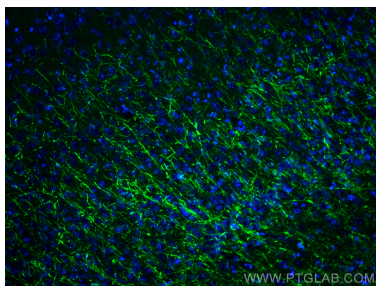
Various lysates were subjected to SDS PAGE followed by western blot with 10458-1-AP (Myelin basic protein antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10458-1-AP (Myelin basic protein antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using Myelin basic protein antibody (10458-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse brain tissue using Myelin basic protein antibody (10458-1-AP) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).