Data Sheet (Cat.No.TMAB-01110)

TargetMol

Anti-MBP Polyclonal Antibody 2

Product Details

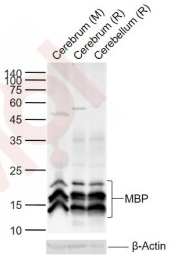
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Dog,Pig,Cow,Horse,Rabbit,Sheep)
Molecular Weight:	Theoretical: 33 kDa. Actual: 14-21 kDa.
Purification:	Protein A purified

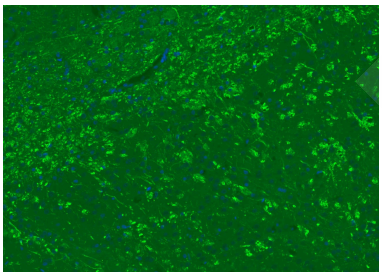
Applications

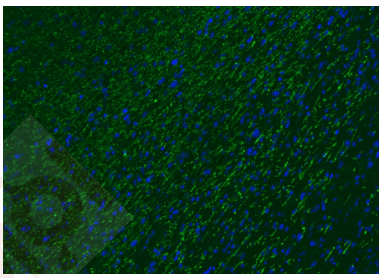
Verified Activity:

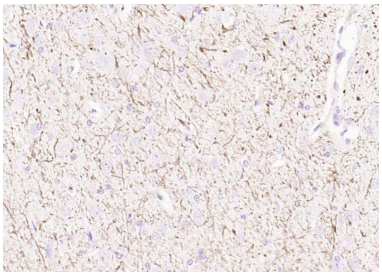
1. Sample:
Lane 1: Mouse Cerebrum tissue lysates
Lane 2: Rat Cerebrum tissue lysates
Lane 3: Rat Cerebellum tissue lysates
Primary: Anti-MBP (TMAB-01110) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 33 kDa
Observed band size: 14-21 kDa
2. Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (MBP) Polyclonal Antibody, Unconjugated (TMAB-01110) at 1: 200 overnight at 4°C, followed by a conjugated Goat Anti-Rabbit IgG antibody for 90 minutes, and DAPI for nucleus staining.
3. Paraformaldehyde-fixed, paraffin embedded (human brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (MBP) Polyclonal Antibody, Unconjugated (TMAB-01110) at 1: 200 overnight at 4°C, followed by a conjugated Goat Anti-Rabbit IgG antibody for 90 minutes, and DAPI for nucleus staining.
4. Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (MBP) Polyclonal Antibody, Unconjugated (TMAB-01110) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructionsand DAB staining.
5. Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (MBP) Polyclonal Antibody, Unconjugated (TMAB-01110) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructionsand DAB staining.
6. Paraformaldehyde-fixed, paraffin embedded Rat Cerebellum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with MBP Polyclonal Antibody, Unconjugated (TMAB-01110) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Purple), DAPI (blue) was used to stain the cell nucleus.
7. Paraformaldehyde-fixed, paraffin embedded Human Cerebellum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with MBP Polyclonal Antibody, Unconjugated (TMAB-01110) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Purple), DAPI (blue) was used to stain the cell nucleus.
8. Paraformaldehyde-fixed, paraffin embedded Human Left Parietal Lobe; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with MBP Polyclonal

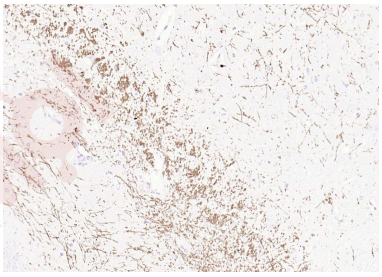
Antibody, Unconjugated (TMAB-01110) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Purple), DAPI (blue) was used to stain the cell nucleus.
9. Paraformaldehyde-fixed, paraffin embedded Mouse Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with MBP Polyclonal Antibody, Unconjugated (TMAB-01110) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Purple), DAPI (blue) was used to stain the cell nucleus.
10. Paraformaldehyde-fixed, paraffin embedded Mouse Cerebellum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with MBP Polyclonal Antibody, Unconjugated (TMAB-01110) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Purple), DAPI (blue) was used to stain the cell nucleus.
11. Paraformaldehyde-fixed, paraffin embedded Mouse Cerebellum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with MBP Polyclonal Antibody, Unconjugated (TMAB-01110) at 1:1500 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
12. Paraformaldehyde-fixed, paraffin embedded Rat Cerebellum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with MBP Polyclonal Antibody, Unconjugated (TMAB-01110) at 1:1500 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
13. Paraformaldehyde-fixed, paraffin embedded Human Cerebellum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with MBP Polyclonal Antibody, Unconjugated (TMAB-01110) at 1:1500 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
14. Paraformaldehyde-fixed, paraffin embedded Human Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with MBP Polyclonal Antibody, Unconjugated (TMAB-01110) at 1:1500 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.

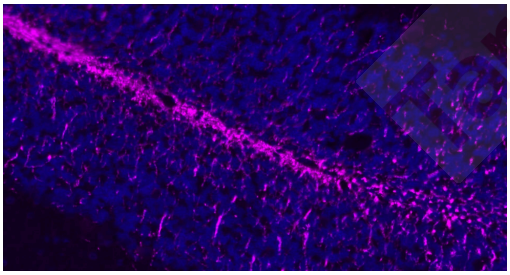


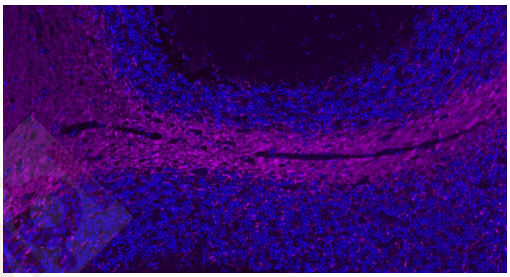


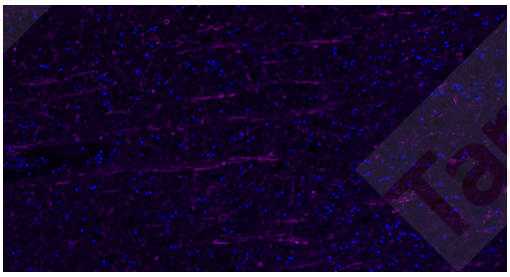


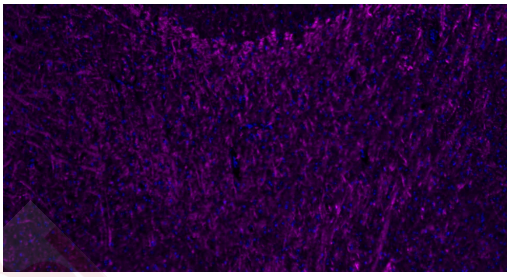


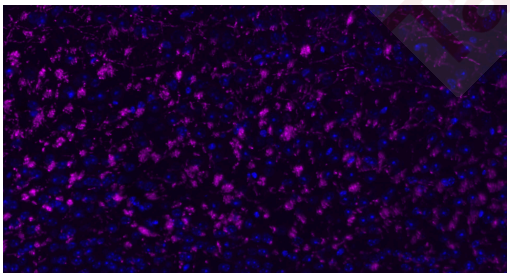


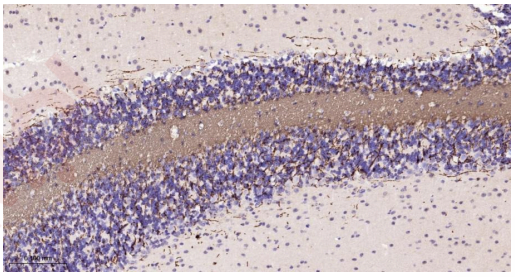


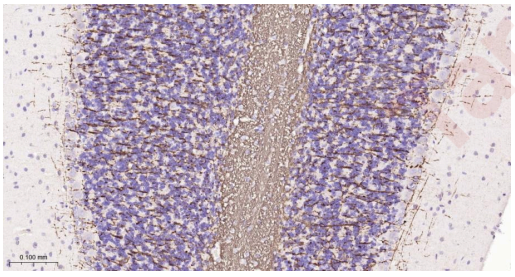


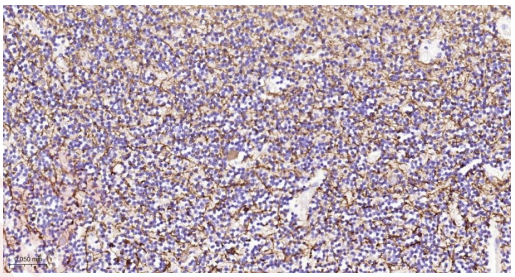


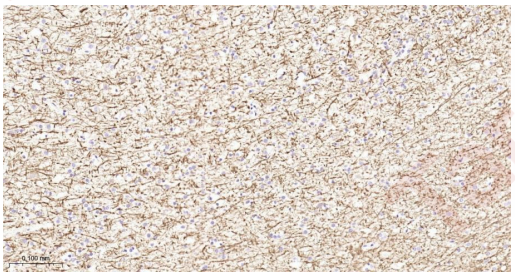












Application: IF,IHC-Fr,IHC-P,WB

Recommended: WB: 1:1000-5000; IHC-P: 1:500-2000; IHC-Fr: 1:500-2000; IF: 1:500-2000

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human MBP
Antigen Species:	Human
Gene ID:	4155
Uniprot ID:	P02686
Synonyms:	Mbp;Myelin A1 protein;Myelin basic protein;Shi
Biology Area:	Membrane Proteins,Oligodendrocyte marker,Glial

Research Background

Oligodendrocyte Marker
The classic group of Myelin basic protein (MBP) isoforms (isoforms 4 to 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 (isoforms 1 to 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 to optional posttranslational modifications give a wide spectrum of isomers, each of them having maybe a specialized function.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481