

Anti-Myelin Basic Protein Antibody

ER1912-82



Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat, Pig, Guinea pig
Applications:	WB, ELISA, IHC-P, FC, IF
Molecular Wt:	33 KDa

Description: 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.

Immunogen: KLH conjugated synthetic peptide derived from Gpig MBP 69-85/167

Positive control: 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.

Subcellular location: Myelin membrane; Peripheral membrane protein; Cytoplasmic side. Note=Cytoplasmic side of myelin.

Database links: SwissProt: P02686 Human | P04370 Mouse

Recommended Dilutions:

WB	1:500-2000
ELISA	1:5000-10000
IHC-P	1:100-500
FC	1ug/test
IF	1:100-500

Storage Buffer: 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

Storage Instruction: Store at -20°C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4°C.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

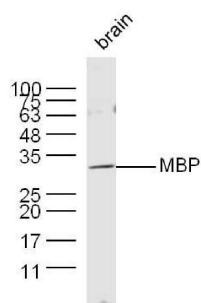


Fig1: Sample: Brain (Mouse) Lysate at 30 ug
 Primary: Anti- MBP (ER1912-82) at 1/300 dilution
 Secondary: Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 33 kD
 Observed band size: 33 kD

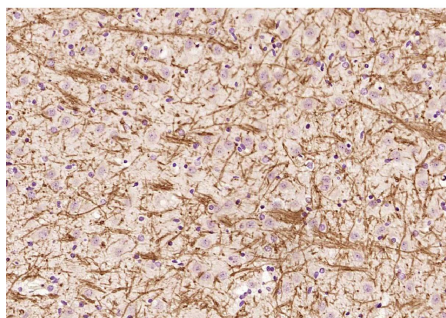


Fig2: Paraformaldehyde-fixed, paraffin embedded (Rat brain);
 Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MBP) Polyclonal Antibody, Unconjugated (ER1912-82) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

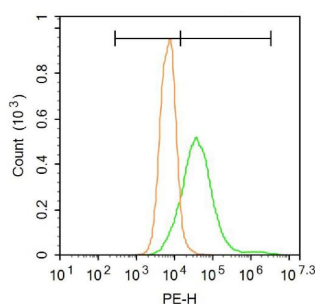


Fig3: Blank control: A549.
 Primary Antibody (green line): Rabbit Anti-MBP antibody (ER1912-82)
 Dilution: 1µg /10⁶ cells;
 Isotype Control Antibody (orange line): Rabbit IgG .
 Secondary Antibody : Goat anti-rabbit IgG-PE
 Dilution: 1µg /test.

Protocol

The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with PBST for 20 min at room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

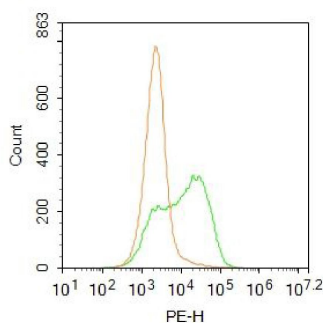


Fig4: Blank control:A549.
 Primary Antibody (green line): Rabbit Anti-MBP antibody (ER1912-82)
 Dilution: 1µg /10⁶ cells;
 Isotype Control Antibody (orange line): Rabbit IgG .
 Secondary Antibody : Goat anti-rabbit IgG-PE
 Dilution:1µg /test.

Protocol

The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 20% PBST for 20 min at room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

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