

bs-24827R**[Primary Antibody]****MBP Rabbit pAb****Bioss**
ANTIBODIES

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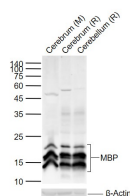
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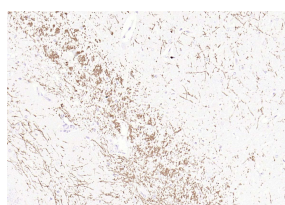
400-901-9800

DATASHEET**Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 4155**SWISS:** P02686**Target:** MBP**Immunogen:** KLH conjugated synthetic peptide derived from human MBP: 241-304/304.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.**Background:** Oligodendrocyte Marker

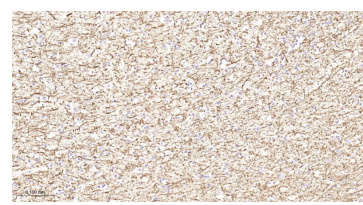
The classic group of Myelin basic protein (MBP) isoforms (isoforms 4 to 14) are with PLP the most abundant protein components of the myelin membrane in the CNS. They have a role in both its formation and stabilization. The smaller isoforms might have an important role in remyelination of denuded axons 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.

Applications: **WB** (1:1000-5000)**IHC-P** (1:500-2000)**IHC-F** (1:500-2000)**IF** (1:500-2000)**Flow-Cyt** (1:100-200)**Reactivity:** Human, Mouse, Rat
(predicted: Rabbit, Pig, Sheep, Cow, Dog, Horse)**Predicted MW.:** 33 kDa**Observed MW.:** 14-21 kDa**Subcellular Location:** Cell membrane ,Cytoplasm**VALIDATION IMAGES**

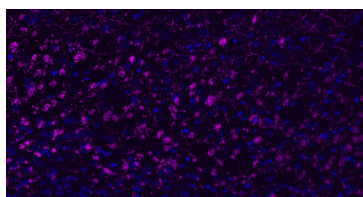
Sample: Lane 1: Mouse Cerebrum tissue lysates
Lane 2: Rat Cerebrum tissue lysates Lane 3: Rat Cerebellum tissue lysates Primary: Anti-MBP (bs-24827R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 33 kDa Observed band size: 14-21 kDa



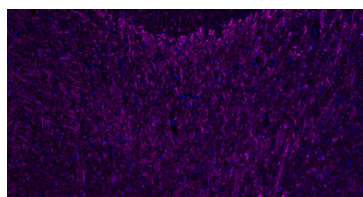
Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MBP) Polyclonal Antibody, Unconjugated (bs-24827R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



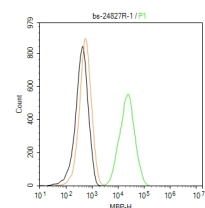
Paraformaldehyde-fixed, paraffin embedded Human Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with MBP Polyclonal Antibody, Unconjugated (bs-24827R) at 1:1500 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded



Paraformaldehyde-fixed, paraffin embedded



The RSC96 (Rat) cells were fixed with 4% PFA (10

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Mouse Cerebellum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with MBP Polyclonal Antibody, Unconjugated (bs-24827R) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Purple, bs-0295D-Cy5), DAPI (blue, C02-04002) was used to stain the cell nuclei.

Mouse Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with MBP Polyclonal Antibody, Unconjugated (bs-24827R) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Purple, bs-0295D-Cy5), DAPI (blue, C02-04002) was used to stain the cell nuclei.

min at r.t.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, the cells then were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.), followed by secondary antibody incubation for 40 min at room temperature. Primary Antibody (green):Rabbit Anti-MBP antibody (bs-24827R,1:100); Isotype Control (orange): Rabbit IgG (bs-0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed.

— SELECTED CITATIONS —

- **[IF=3.9]** Jin Zhu. et al. Neurofascin stabilization by contactin-associated protein-like 2 and CTCF alleviates mitochondrial dysfunction in Schwann cells during facial nerve injury. J BIOL CHEM. 2025 Dec;;111090 WB ;Human,Rabbit. 41443418
- **[IF=3.7]** Sun Xuri. et al. Exogenous NT-3 Promotes Phenotype Switch of Resident Macrophages and Improves Sciatic Nerve Injury through AMPK/NF-κB Signaling Pathway. NEUROCHEM RES. 2024 Jun;;1-15 IF, WB ;Rat. 38904909
- **[IF=2.1]** Junyi Wang. et al. Early exercise intervention promotes myelin repair in the brains of ischemic rats by inhibiting the MEK/ERK pathway. TRANSL NEUROSCI. 2024 Jan;15(1): IF ;Rat. 38511170