bs-0337R **[Primary Antibody]**

Myelin Protein Zero Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 4359 **SWISS:** P25189

Target: Myelin Protein Zero

Immunogen: KLH conjugated synthetic peptide derived from human P0 protein: 175-248/248. < Cytoplasmic >

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: Myelin protein-zero is the major structural protein of peripheral myelin, accounting for more than 50% of the protein present in the sheath of peripheral nerves. Expression of the gene encoding Myelin protein-zero (MPZ) is restricted to Schwann cells; MPZ is not found in the CNS. An integral membrane glycoprotein of ~28kDa, Myelin protein-zero is thought to link adjacent lamellae and thereby stabilize the myelin assembly. The other 3 major components of myelin are myelin basic protein, myelin proteolipid protein and myelin-associated glycoprotein.

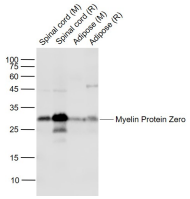
Applications: **WB** (1:500-2000)

Reactivity: Mouse, Rat (predicted: Human)

Predicted MW.: 24 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: Lane 1: Spinal cord (Mouse) Lysate at 40 ug Lane 2: Spinal cord (Rat) Lysate at 40 ug Lane 3: Adipose (Mouse) Lysate at 40 ug Lane 4: Adipose (Rat) Lysate at 40 ug Primary: Anti-Myelin Protein Zero (bs-0337R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 28 kD Observed band size: 28 kD

SELECTED CITATIONS

- **[IF=10.76]** Schulz, Alexander, et al. "The importance of nerve microenvironment for schwannoma development." Acta Neuropathologica (2016): 1-19. IHC ;="Mouse". 27236462
- **[IF=9.91]** Schulz, Alexander, et al. "Neuronal merlin influences ERBB2 receptor expression on Schwann cells through neuregulin 1 type III signalling." Brain (2013): awt327 IHC ;="Human". 24309211
- **[IF=6]** Röhr, Dominik, et al. "Sodium‐dependent Vitamin C transporter 2 deficiency impairs myelination and remyelination after injury: Roles of collagen and demethylation." Glia (2017). WB,ICC ;="Mouse". 28456003
- **[IF=4.73]** Erdal Ayhan Işik. et al. Use of Erythropoietin and Fibrin Glue Mixture for Peripheral Nerve Repair. Plast Reconstr Surg. 2022 Feb;149(2):395-403 IHC ;Rat. 34898529

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

- **[IF=3.73]** Li, Junhui, et al. "Relationship between neural alteration and perineural invasion in pancreatic cancer patients with hyperglycemia." PLoS One 6.2 (2011): e17385. IHC ;="Human". 21386984

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