bs-0257R **[Primary Antibody]**

MAG Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 4099 **SWISS:** P20916

Target: MAG

Immunogen: KLH conjugated synthetic peptide derived from human MAG-a/b: 501-582/582. < 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: MAG (myelin associated glycoprotein) is a Adhesion molecule in postnatal neural development that mediates sialic-acid dependent cell-cell interactions between neuronal and myelinating cells. Preferentially binds to alpha2,3-linked sialic acid. Isoform L-MAG is critical for the formation of myelin in the CNS, whereas isoform S-MAG is sufficient to maintain the integrity of myelin in PNS. Binds to RTN4R. single-pass type I membrane protein. Expressed by myelinating glial cells in the central and peripheral nervous system. Detected in oligodendrocyte processes before formation of compact myelin. Restricted to the periaxonal space after myelination. Isoform S-MAG is the predominant isoform in CNS and PNS of the adult. In CNS isoform L-MAG is the major form synthesized early in development, and it persists as a significant proportion of the MAG present in the adult. In the PNS isoform L-MAG is expressed at modest levels during development; it is absent in the adult. Belongs to the immunoglobulin superfamily. SIGLEC (sialic acid binding Ig-like lectin) family.

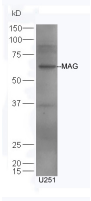
Applications: **WB** (1:500-2000)
Flow-Cyt (1ug/Test)

Reactivity: Human (predicted: Mouse, Rat)

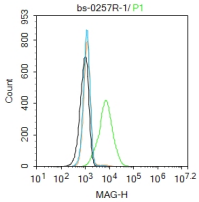
Predicted MW.: 67 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: U251 Cell Lysate at 30 ug Primary: Anti-MAG (bs-0257R) at 1:300 dilution; Secondary: HRP conjugated Goat-Anti-rabbit IgG(bs-0295G-HRP) at 1: 5000 dilution; Predicted band size:67 kD Observed band size:67 kD



Blank control:SH-SY5Y. Primary Antibody (green line): Rabbit Anti-MAG antibody (bs-0257R) Dilution: 1ug/Test; Secondary Antibody : Goat anti-rabbit IgG-FITC Dilution: 0.5ug/Test. Protocol The cells were 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.

SELECTED CITATIONS

- **[IF=1.27]** Feng, Nianping, et al. "Transplantation of mesenchymal stem cells promotes the functional recovery of the central nervous system following cerebral ischemia by inhibiting myelin-associated inhibitor expression and neural

apoptosis." Experimental and Therapeutic Medicine. IHC ;Rat. 27168778

- **[IF=1.17]** Ozgun-Acar, Ozden, et al. "Capparis ovata treatment suppresses inflammatory cytokine expression and ameliorates experimental allergic encephalomyelitis model of multiple sclerosis in C57BL/6 mice." Journal of Neuroimmunology (2016). IHC ;Mouse. 10.1016/j.jneuroim.2016.07.010
- **[IF=1.26]** Zhang et al. MicroRNA-210 contributes to peripheral nerve regeneration through promoting the proliferation and migration of Schwann cells. (2017) Exp.Ther.Med. 14:2809-2816 WB ;Rat. 28912843