Datasheet for ABIN7197064

MAG Protein (Fc Tag,ECD)

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1 Image

Overview

Quantity:	100 µg
Target:	MAG
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAG protein is labelled with Fc Tag,ECD.

Product Details

Purpose:	Recombinant Mouse MAG/Siglec-4a Protein (ECD, Fc Tag)
Sequence:	Met1-Pro516
Characteristics:	A DNA sequence encoding the mouse Mag (NP_034888.1) (Met1-Pro516) was expressed with the Fc region of human IgG1 at the C-terminus.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.

Target Details

Target:	MAG
Alternative Name:	MAG/Siglec-4a (MAG Products)
Background:	Background: The myelin-associated glycoprotein (MAG) contains five immunoglobulin-like domains and belongs to the sialic-acid-binding subgroup of the Ig superfamily. MAG is a transmembrane glycoprotein of 100 kDa localized in myelin sheaths of periaxonal Schwann cell

Target Details

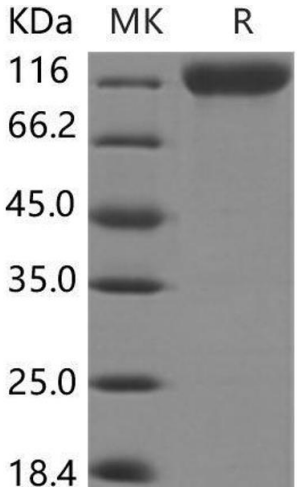
	and oligodendroglial membranes where it functions in glia-axon interactions. It appears to function both as a receptor for an axonal signal that promotes the differentiation, maintenance and survival of oligodendrocytes and as a ligand for an axonal receptor that is needed for the maintence of myelinated axons. MAG contains a carbohydrate epitope shared with other glycoconjugates that is a target antigen in autoimmune peripheral neuropathy associated with IgM gammopathy and has been implicated in a dying back oligodendrogliopathy in multiple sclerosis. MAG is considered as a transmembrane protein of both CNS and PNS myelin and it strongly inhibits neurite outgrowth in both developing cerebellar and adult dosal root ganglion neurons. In contrast, MAG promotes neurite outgrowth from newborn DRG neurons. Thus, MAG may be responsible for the lack of CNS nerve regeneration and may influce both temporally and spatially regeneration in the PNS. Synonym: Myelin-Associated Glycoprotein,MAG,Siglec-4a
Molecular Weight:	81.6 kDa
NCBI Accession:	NP_034888
Pathways:	Neurotrophin Signaling Pathway

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting
Image 1.

