Datasheet for ABIN7199577

MAG Protein (His-Avi Tag,Biotin)

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Overview

Quantity:	200 µg
Target:	MAG
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAG protein is labelled with His-Avi Tag,Biotin.

Product Details

Purpose:	Biotinylated Mouse MAG / Siglec-4a Protein, His,Avitag™ (MALS verified)
Sequence:	Gly 20 - Pro 516
Characteristics:	Biotinylated Mouse MAG, His,Avitag is expressed from human 293 cells (HEK293). It contains AA Gly 20 - Pro 516 (Accession # P20917-1).
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.
Grade:	MALS verified

Target Details

Target:	MAG
Alternative Name:	MAG / Siglec-4a (MAG Products)
Background:	Synonyms: MAG,Siglec-4a,GMA,S-MAG,

Target Details

	Myelin-associated glycoprotein (MAG), a nervous system cell adhesion molecule, is an I-type lectin that binds to sialylated glycoconjugates, including gangliosides bearing characteristic structural determinants. Preferentially binds to alpha-2,3-linked sialic acid. Binds ganglioside Gt1b. Adhesion molecule that mediates interactions between myelinating cells and neurons by binding to neuronal sialic acid-containing gangliosides and to the glycoproteins RTN4R and RTN4RL2. Protection against apoptosis is probably mediated via interaction with neuronal RTN4R and RTN4RL2. In dorsal root ganglion neurons the inhibition is mediated primarily via binding to neuronal RTN4R or RTN4RL2 and to a lesser degree via binding to neuronal gangliosides. In cerebellar granule cells the inhibition is mediated primarily via binding to neuronal gangliosides. In sensory neurons, inhibition of neurite extension depends only partially on RTN4R, RTN4RL2 and gangliosides.
Molecular Weight:	58.4 kDa
NCBI Accession:	NP_001333013
Pathways:	Neurotrophin Signaling Pathway

Application Details

Application Notes:	This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™). The protein has a calculated MW of 58.4 kDa. The protein migrates as 70-90 kDa under reducing (R) condition due to glycosylation.
Comment:	Ready-to-use Avitag™ biotinylated protein: The product is exclusively produced using the Avitag™ technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA. This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	PBS, 0.5 M Arginine, pH 7.4
Storage:	-20 °C
Storage Comment:	-20°C

