

Catalog Number: Eg3251

Basic Information

Species:
Rat**Purity:**
>90 %, SDS-PAGE**Tag:**
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/μg protein, LAL method

Source:

HEK293-derived Rat MAG protein Gly20-Pro516 (Accession# P07722-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

29409

Accession:

P07722-1

Predicted Molecular Mass:

81.2 kDa

SDS-PAGE:

95-110 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Myelin-associated glycoprotein (MAG/Siglec-4a), a member of the siglec family, is a 100 kDa glycoprotein that is located in the innermost layer of the myelin lamellae, where it maintains close contact with the axonal membrane and mediates cell-to-cell interactions between myelinating glial cells and neurons. It is selectively expressed by myelinating cells, including Schwann cells in the peripheral nervous system (PNS) and oligodendrocytes in the central nervous system (CNS). MAG is a key component of axon-glial cell interactions, and serves a variety of functions in the biology of neurons and glial cells. In vitro MAG can affect synapse growth in a bifunctional manner. It promotes neurite growth in neurons at early stages of development (e.g., embryonic dorsal root ganglion) and inhibits neurite growth in neurons at later stages, such as the adult dorsal root ganglion or early postnatal cerebellum.

References

1. Lopez PH. (2014) Adv Neurobiol. 9:245-62.
2. Strenge K, et al. (2001) FEBS Lett. 499(3):262-7.
3. Swanson BJ, et al. (2007) Cancer Res. 67(21):10222-9.

Synonyms

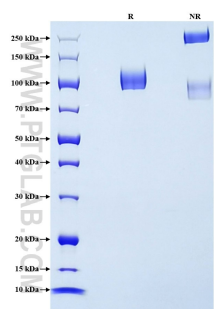
1B236, Brain neuron cytoplasmic protein 3, Myelin-associated glycoprotein, Sialic acid-binding Ig-like lectin 4a, Siglec-4a

For technical support and original validation data for this product please contact

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 W: ptglab.com

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Selected Validation Data



Purity of Recombinant Rat MAG was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.