BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Myelin-associated glycoprotein MAG Antibody Picoband® Biotin Conjugated

Catalog Number: PA1751-Biotin

About MAG

MAG (Myelin-associated glycoprotein),also known as SIGLEC4A, is a cell membrane glycoprotein that is a member of the SIGLEC family of proteins and is a functional ligand of the NOGO-66 receptor, NgR. It is though to be involved in the process of myelination. MAG is a sialic acid-binding SIGLEC protein and is a functional ligand for the NOGO receptor.The MAG gene is mapped on 19q13.12. Cleavage of GPI-linked proteins from axons protects growth cones from MAG-induced collapse, and dominant-negative NgR eliminates MAG inhibition of neurite outgrowth. MAG-resistant embryonic neurons were rendered MAG-sensitive by expression of NgR. MAG binds specifically to an NgR-expressing cell line in a GPI-dependent and sialic acid-independent manner. Experiments blocking NgR from interacting with MAG prevented inhibition of neurite outgrowth by MAG. In cultured human embryonic kidney (HEK) cells expressing the NOGO receptor, p75 (NTR) was required for MAG-induced intracellular calcium elevation.

Overview

Product Name	Anti-Myelin-associated glycoprotein MAG Antibody Picoband® Biotin Conjugated
Reactive Species	Mouse, Rat
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na2HPO4, 0.02% NaN3.
Storage Instructions	At -20˚C for one year from date of receipt. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P20916

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human MAG, identical to the related rat and mouse sequences.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Biotin

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Suggested Dilutions	The intended application should be selected according to the customer's experimental requirements.

2 Publications Citing This Product

1. PubMed ID: 30233061, Inhibition of neurite outgrowth using commercial myelin associated glycoprotein-Fc in neuro-2a cells

2. PubMed ID: 28408633, Heterogeneity of Cortical Lesion Susceptibility Mapping in Multiple Sclerosis

Visit bosterbio.com/anti-mag-antibody-pa1751-boster.html to see all 2 publications.

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For Research Use Only. Not for use in diagnostic procedures.