

## Anti-MAG Picoband™ Antibody (monoclonal, 2G11)

Clone no. 2G11

MONOSAN

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Product name	Anti-MAG Picoband™ Antibody (monoclonal, 2G11)
Host	Mouse
Applications	FC,IF,IHC,WB
Species reactivity	Human,Mouse,Rat
Conjugate	-
Immunogen	E.coli-derived human MAG recombinant protein (Position: E34-R605).
Isotype	IgG2a
Clonality	Monoclonal
Clone number	2G11
Size	100µg
Concentration	Adding 0.2 ml of distilled water =f 500 µg/ml.
Format	Lyophilized
Storage buffer	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .
Storage until expiry date	-20°C

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES

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**Additional info**

Store at -20 °C for one year from date of receipt. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for six months. Avoid repeated freeze-thaw cycles. Add 0.2ml of distilled water will yield a concentration of 500ug/ml. Background: 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 thought 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. Subcellular Localization: Tissue Specificity:

**References**

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2. -
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4. -
5. -

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