



Datasheet for ABIN3044143  
**anti-MAG antibody (N-Term)**



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4 Images

Overview

Quantity:	100 µg
Target:	MAG
Binding Specificity:	AA 114-132, N-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Myelin-associated glycoprotein(MAG) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human MAG(114-132aa KYYFRGDLGGYNQYTFSEH), identical to the related rat and mouse sequences.
Sequence:	KYYFRGDLGG YNQYTFSEH
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Myelin-associated glycoprotein(MAG) detection. Tested with WB, IHC-P in Human,Mouse,Rat.  Gene Name: myelin associated glycoprotein Protein Name: Myelin-associated glycoprotein
Purification:	Immunogen affinity purified.

## Target Details

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Target:	MAG
Alternative Name:	MAG ( <a href="#">MAG Products</a> )
Background:	<p>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.</p> <p>Synonyms: GMA antibody MAG antibody MAG_HUMAN antibody Myelin associated glycoprotein antibody Myelin-associated glycoprotein antibody S MAG antibody Siglec 4a antibody Siglec-4a antibody SIGLEC4A antibody</p>
UniProt:	<a href="#">P20916</a>
Pathways:	<a href="#">Neurotrophin Signaling Pathway</a>

## Application Details

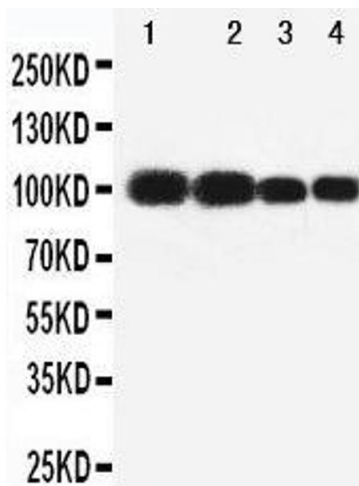
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Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat</p> <p>IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.</p> <p>Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

## Handling

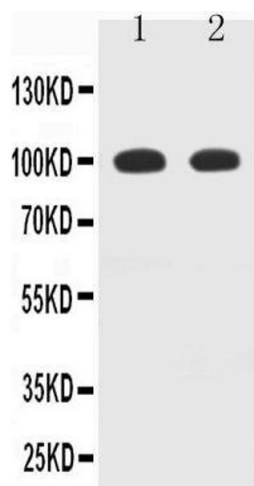
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

## Validation report #300028 for Immunohistochemistry (IHC)



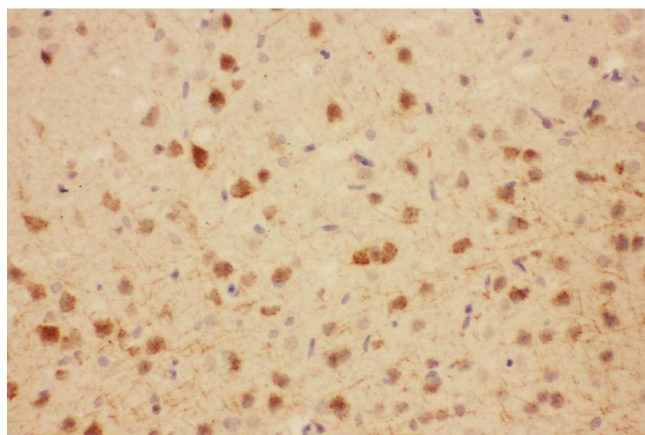
### Western Blotting

**Image 1.** Anti-MAG antibody, Western blotting Lane 1: Rat Brain Tissue Lysate Lane 2: Rat Brain Tissue Lysate Lane 3: Mouse Brain Tissue Lysate Lane 4: Mouse Brain Tissue Lysate



### Western Blotting

**Image 2.** Observed bind size: 100KD



### Immunohistochemistry

**Image 3.** Anti-MAG antibody, IHC(P) IHC(P): Rat Brain Tissue

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3044143.