

MAG Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8845c

Specification

MAG Antibody (Center) - Product Information

Application	WB, FC,E
Primary Accession	P20916
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	69069
Antigen Region	439-466

MAG Antibody (Center) - Additional Information

Gene ID 4099

Other Names

Myelin-associated glycoprotein, Siglec-4a, MAG, GMA

Target/Specificity

This MAG antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 439-466 amino acids from the Central region of human MAG.

Dilution

WB~~1:2000
FC~~1:10~50

Format

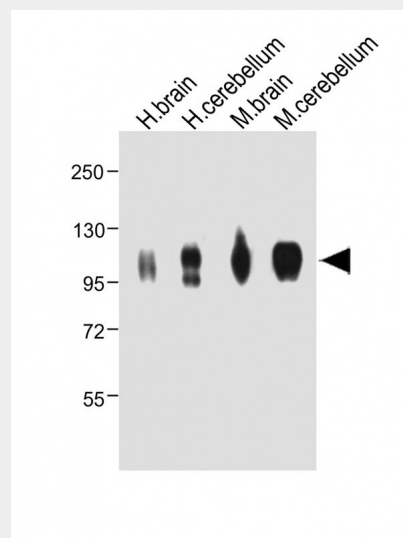
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

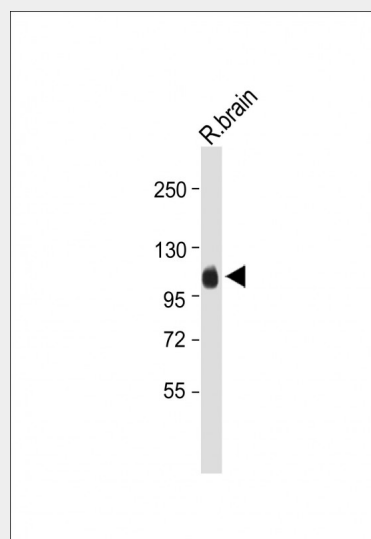
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

MAG Antibody (Center) is for research use only and not for use in diagnostic or



All lanes : Anti-MAG Antibody (Center) at 1:2000 dilution Lane 1: Human brain whole tissue lysate Lane 2: Human cerebellum whole tissue lysate Lane 3: Mouse brain whole tissue lysate Lane 4: Mouse cerebellum whole tissue lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 69 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Anti-MAG Antibody (Center) at 1:2000

therapeutic procedures.

MAG Antibody (Center) - Protein Information

Name MAG

Synonyms GMA

Function

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 (By similarity). Not required for initial myelination, but seems to play a role in the maintenance of normal axon myelination. Protects motoneurons against apoptosis, also after injury; protection against apoptosis is probably mediated via interaction with neuronal RTN4R and RTN4RL2. Required to prevent degeneration of myelinated axons in adults; this probably depends on binding to gangliosides on the axon cell membrane (By similarity). Negative regulator of neurite outgrowth; 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. Inhibits axon longitudinal growth (By similarity). Inhibits axon outgrowth by binding to RTN4R (By similarity). Preferentially binds to alpha-2,3-linked sialic acid. Binds ganglioside Gt1b (By similarity).

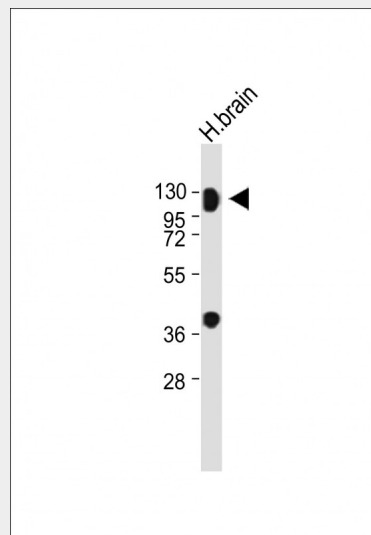
Cellular Location

Cell membrane; Single-pass type I membrane protein Membrane raft {ECO:0000250|UniProtKB:P07722}

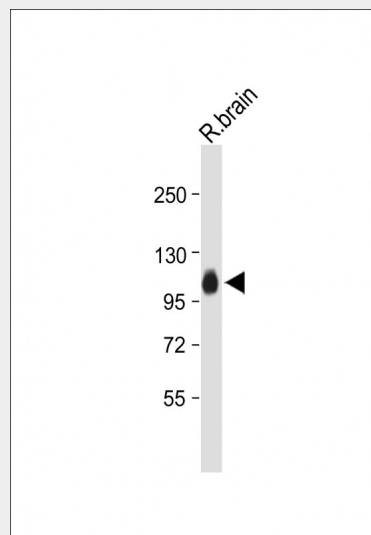
Tissue Location

Both isoform 1 and isoform 2 are detected in myelinated structures in the central and peripheral nervous system, in periaxonal myelin and at Schmidt-Lanterman incisures (PubMed:9495552, PubMed:6200494). Detected in optic nerve, in oligodendroglia and in periaxonal myelin sheaths (PubMed:6200494). Detected in compact

dilution + Rat brain whole tissue lysate
Lysates/proteins at 20 µg per lane.
Secondary Goat Anti-Rabbit IgG, (H+L),
Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 69 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.



Anti-MAG Antibody (Center) at 1:2000
dilution + Human brain whole tissue lysate
Lysates/proteins at 20 µg per lane.
Secondary Goat Anti-Rabbit IgG, (H+L),
Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 69 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.



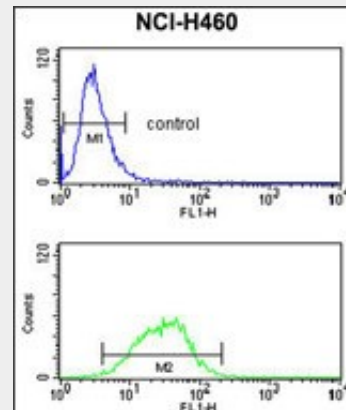
Anti-MAG Antibody (Center) at 1:2000
dilution + Rat brain whole tissue lysate
Lysates/proteins at 20 µg per lane.
Secondary Goat Anti-Rabbit IgG, (H+L),
Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 69 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.

myelin (at protein level) (PubMed:6200494). Both isoform 1 and isoform 2 are detected in the central and peripheral nervous system (PubMed:9495552)

MAG Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)



MAG Antibody (Center) (Cat. #AP8845c) flow cytometry analysis of NCI-H460 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

MAG Antibody (Center) - Background

MAG is a type I membrane protein and member of the immunoglobulin superfamily. It is thought to be involved in the process of myelination. It is a lectin that binds to sialylated glycoconjugates and mediates certain myelin-neuron cell-cell interactions.

MAG Antibody (Center) - References

Stalder, A.K., et al., J. Neuropathol. Exp. Neurol. 68 (2), 148-158 (2009)