

Nogo-A Rabbit pAb
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Catalog # AP94628**Specification**

Nogo-A Rabbit pAb - Product Information

Application	IHC-P
Primary Accession	Q99P72
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	126613

Nogo-A Rabbit pAb - Additional Information**Gene ID** 68585**Other Names**

Reticulon-4, Neurite outgrowth inhibitor, Nogo protein, Rtn4 {ECO:0000312|MGI:MGI:1915835}

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Nogo-A Rabbit pAb - Protein Information**Name** Rtn4 {ECO:0000312|MGI:MGI:1915835}**Function**

Required to induce the formation and stabilization of endoplasmic reticulum (ER) tubules. They regulate membrane morphogenesis in the ER by promoting tubular ER production. They influence nuclear envelope expansion, nuclear pore complex formation and proper localization of inner nuclear membrane proteins. However each isoform have specific functions mainly depending on their tissue expression specificities.

Cellular Location

[Isoform A]: Endoplasmic reticulum membrane; Multi-pass membrane protein. Cell membrane {ECO:0000250|UniProtKB:Q9NQC3}; Multi-pass membrane protein; Cytoplasmic side {ECO:0000250|UniProtKB:Q9NQC3}. Synapse. Note=Anchored to the membrane of the endoplasmic reticulum (ER) through 2 putative transmembrane domains Localizes throughout the ER tubular network. Co-localizes with TMEM33 at the ER sheets. {ECO:0000250|UniProtKB:Q9NQC3} [Isoform C]: Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q9NQC3}; Multi-pass membrane protein

Tissue Location

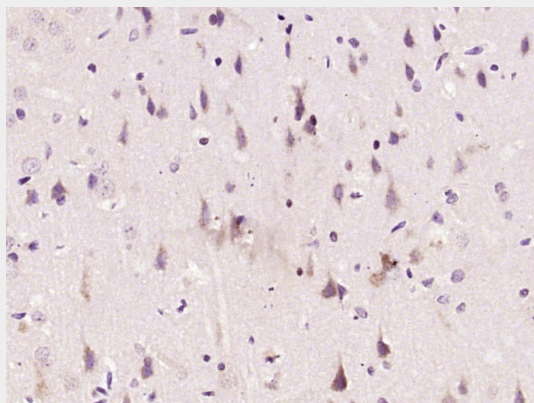
[Isoform A]: Expressed in cardiomyocytes (at protein level) (PubMed:32075961). Highly expressed in brain but not detected in aorta, femoral and carotid arteries (PubMed:15034570) Main isoform expressed in neurons (PubMed:23625008, PubMed:27786289) [Isoform B2]: Expressed in B-cells, bone marrow dendritic cells and macrophages (at protein level) [Isoform D]: Expressed at very low levels in neurons.

Nogo-A Rabbit pAb - Protocols

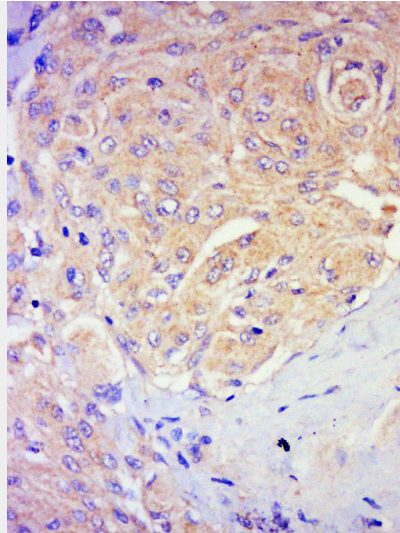
Provided below are standard protocols that you may find useful for product applications.

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

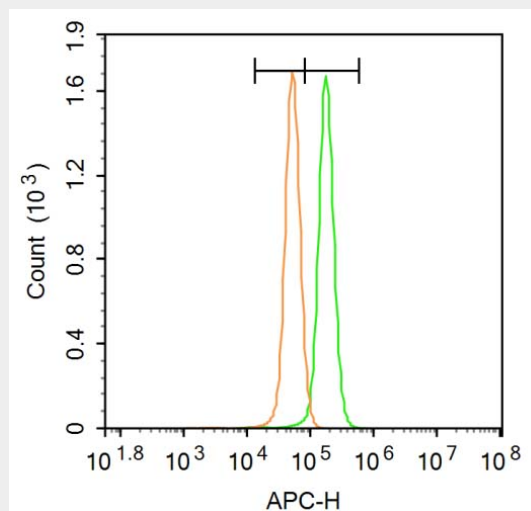
Nogo-A Rabbit pAb - Images



Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Nogo-A) Polyclonal Antibody, Unconjugated (AP94628) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: human meningioma tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Nogo-A Polyclonal Antibody, Unconjugated(AP94628) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control: A431. Primary Antibody (green line): Rabbit Anti-Nogo-A antibody (AP94628) Dilution: 1 μ g /10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody: Goat anti-rabbit IgG-AF647 Dilution: 1 μ g /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature.Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

Nogo-A Rabbit pAb - Background

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.