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Nogo A Polyclonal Antibody

| Catalog No: | YT3162 |
| :---: | :---: |
| Reactivity : | Human;Mouse;Rat |
| Applications: | WB;IHC;ELISA |
| Target: | Nogo A |
| Fields : | >>Alzheimer disease |
| Gene Name : | RTN4 |
| Protein Name : | Reticulon-4 |
| Human Gene Id : | 57142 |
| Human Swiss Prot | Q9NQC3 |
| Mouse Gene Id : | 68585 |
| Mouse Swiss Prot | Q99P72 |
| Rat Gene Id : | 83765 |

Rat Swiss Prot No: Q9JK11

Immunogen: The antiserum was produced against synthesized peptide derived from human
Nogo A. AA range:450-499

Specificity: $\quad$ Nogo A Polyclonal Antibody detects endogenous levels of Nogo A protein.

Formulation: $\quad$ Liquid in PBS containing 50\% glycerol, $0.5 \%$ BSA and $0.02 \%$ sodium azide.

Source: Polyclonal, Rabbit,lgG

Dilution: $\quad$ WB 1:500-1:2000. IHC 1:100-1:300. ELISA: 1:10000.

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## Purification :

## Concentration :

Storage Stability :

Observed Band :

Cell Pathway :

Background :

The antibody was affinity-purified from rabbit antiserum by affinitychromatography using epitope-specific immunogen.

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    1 mg/ml
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    \(-15^{\circ} \mathrm{C}\) to \(-25^{\circ} \mathrm{C} / 1\) year(Do not lower than \(-25^{\circ} \mathrm{C}\) )
    220kD
    Regulation of Microtubule Dynamics; Regulation of Actin Dynamics; SAPK_JNK; Stem cell pathway; Adherens_Junction

This gene belongs to the family of reticulon encoding genes. Reticulons are associated with the endoplasmic reticulum, and are involved in neuroendocrine secretion or in membrane trafficking in neuroendocrine cells. The product of this gene is a potent neurite outgrowth inhibitor which may also help block the regeneration of the central nervous system in higher vertebrates. Alternatively spliced transcript variants derived both from differential splicing and differential promoter usage and encoding different isoforms have been identified. [provided by RefSeq, Jul 2008],
domain:Three regions, residues 59-172, 544-725 and the loop 66 amino acids, between the two transmembrane domains, known as Nogo-66 loop, appear to be responsible for the inhibitory effect on neurite outgrowth and the spreading of neurons. This Nogo-66 loop, mediates also the binding of RTN4 to its receptor.,function:Potent neurite growth inhibitor in vitro and plays a role both in the restriction of axonal regeneration after injury and in structural plasticity in the CNS. Isoform 2 reduces the anti-apoptotic activity of $\mathrm{Bcl}-\mathrm{xl}$ and $\mathrm{Bcl}-2$. This is likely consecutive to their change in subcellular location, from the mitochondria to the endoplasmic reticulum, after binding and sequestration. Isoform 2 and isoform 3 inhibit BACE1 activity and amyloid precursor protein processing.,online information:Nerve regrowth: nipped by a no-go - Issue 69 of April 2006,online information:The Singapore hu
[Isoform A]: Endoplasmic reticulum membrane ; Multi-pass membrane protein . Cell membrane; Multi-pass membrane protein ; Cytoplasmic side. Anchored to the membrane of the endoplasmic reticulum (ER) through 2 putative transmembrane domains. Localizes throughout the ER tubular network (PubMed:27619977). Co-localizes with TMEM33 at the ER sheets. .; [lsoform B]: Endoplasmic reticulum membrane ; Multi-pass membrane protein. Cell membrane ; Multi-pass membrane protein ; Extracellular side . Cell junction. Mainly located on endoplasmic reticulum tubules and sheet edges (PubMed:27786289). Upon ICAM1 engagement, redistributed toward endothelial junctions where interacts with CDH5 (PubMed:21183689). .; [lsoform C]: Endoplasmic reticulum membrane ; Multi-pass membrane protein .

Expression: Isoform A: is specifically expressed in brain and testis and weakly in heart and

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skeletal muscle. Isoform B: widely expressed except for the liver. Highly expressed in endothelial cells and vascular smooth muscle cells, including blood vessels and mesenteric arteries (PubMed:15034570, PubMed:21183689). Isoform C: is expressed in brain, skeletal muscle and adipocytes. Isoform D is testis-specific.

## Products Images



Western Blot analysis of various cells using Nogo A Polyclonal Antibody


Immunohistochemical analysis of paraffin-embedded Human skeletal muscle. Antibody was diluted at 1:100(4${ }^{\circ}$ overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.


Immunohistochemistry analysis of Nogo A antibody in paraffinembedded human skeletal muscle tissue.

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