

# Nogo A Polyclonal Antibody

Catalog # AP71345

## Product Information

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<b>Application</b>	WB, IHC-P, IF, ICC, E
<b>Primary Accession</b>	<a href="#">Q9NQC3</a>
<b>Reactivity</b>	Human, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	129931

## Additional Information

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<b>Gene ID</b>	57142
<b>Other Names</b>	RTN4; KIAA0886; NOGO; My043; SP1507; Reticulon-4; Foocen; Neurite outgrowth inhibitor; Nogo protein; Neuroendocrine-specific protein; NSP; Neuroendocrine-specific protein C homolog; RTN-x; Reticulon-5
<b>Dilution</b>	WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications. IHC-P~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications. IF~~1:50~200 ICC~~N/A E~~N/A
<b>Format</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
<b>Storage Conditions</b>	-20°C

## Protein Information

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<b>Name</b>	RTN4 ( <a href="#">HGNC:14085</a> )
<b>Function</b>	Required to induce the formation and stabilization of endoplasmic reticulum (ER) tubules (PubMed: <a href="#">24262037</a> , PubMed: <a href="#">25612671</a> , PubMed: <a href="#">27619977</a> ). They regulate membrane morphogenesis in the ER by promoting tubular ER production (PubMed: <a href="#">24262037</a> , PubMed: <a href="#">25612671</a> , PubMed: <a href="#">27619977</a> , PubMed: <a href="#">27786289</a> ). They influence nuclear envelope expansion, nuclear pore complex formation and proper localization of inner nuclear membrane proteins (PubMed: <a href="#">26906412</a> ). However each isoform have specific functions mainly depending on their tissue expression specificities (Probable).
<b>Cellular Location</b>	[Isoform A]: Endoplasmic reticulum membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein; Cytoplasmic side Synapse {ECO:0000250   UniProtKB:Q99P72}. Note=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 [Isoform C]: Endoplasmic reticulum membrane; Multi-pass membrane protein

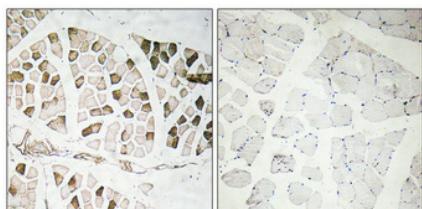
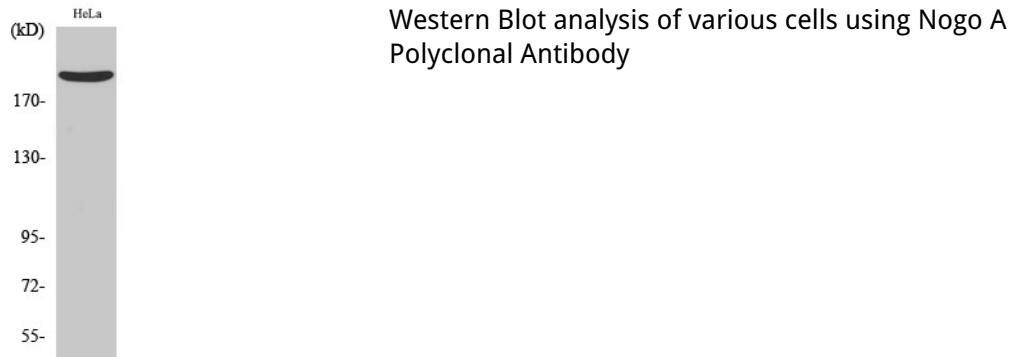
## Tissue Location

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

## Background

Required to induce the formation and stabilization of endoplasmic reticulum (ER) tubules (PubMed:[27619977](#), PubMed:[25612671](#), PubMed:[24262037](#)). They regulate membrane morphogenesis in the ER by promoting tubular ER production (PubMed:[27619977](#), PubMed:[25612671](#), PubMed:[24262037](#), PubMed:[27786289](#)). They influence nuclear envelope expansion, nuclear pore complex formation and proper localization of inner nuclear membrane proteins (PubMed:[26906412](#)). However each isoform have specific functions mainly depending on their tissue expression specificities (Probable).

## Images



Immunohistochemical analysis of paraffin-embedded Human skeletal muscle. Antibody was diluted at 1:100(4°,overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.