

# Nogo Antibody

Rabbit mAb

Catalog # AP91643

## Product Information

<b>Application</b>	WB, IHC, IF, FC, ICC, IP, IHF
<b>Primary Accession</b>	<a href="#">Q9NQC3</a>
<b>Reactivity</b>	Human
<b>Clonality</b>	Monoclonal
<b>Other Names</b>	ASY; Foocen; NI220/250; NOGO; NOGOC; NSP; rat N; RTN X; Rtn4; RTN4-A; RTN4-B1; RTN4-B2; RTN4-C; Vp20;
<b>Isotype</b>	Rabbit IgG
<b>Host</b>	Rabbit
<b>Calculated MW</b>	129931

## Additional Information

<b>Dilution</b>	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:50 FC 1:50
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human Nogo
<b>Description</b>	Developmental neurite growth regulatory factor with a role as a negative regulator of axon-axon adhesion and growth, and as a facilitator of neurite branching. Regulates neurite fasciculation, branching and extension in the developing nervous system.
<b>Storage Condition and Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

## Protein Information

<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

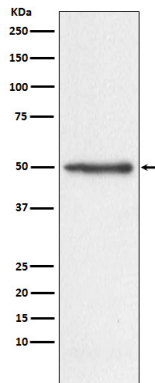
(PubMed:27619977) Co-localizes with TMEM33 at the ER sheets [Isoform C]: Endoplasmic reticulum membrane; Multi-pass membrane protein

## 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.

## Images

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Western blot analysis of Nogo expression in HeLa cell lysate.

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