

# Anti-RTN4 / NOGO Reference Antibody (atinumab)

Recombinant Antibody

Catalog # APR10420

## Product Information

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<b>Application</b>	FC, Kinetics, Animal Model
<b>Primary Accession</b>	<a href="#">Q9NQC3</a>
<b>Reactivity</b>	Human
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG4SP
<b>Calculated MW</b>	129931

## Additional Information

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<b>Target/Specificity</b>	RTN4 / NOGO
<b>Endotoxin</b>	
<b>Conjugation</b>	Unconjugated
<b>Expression system</b>	CHO Cell
<b>Format</b>	Purified monoclonal antibody supplied in PBS, pH6.0, without preservative. This antibody is purified through a protein A column.

## Protein Information

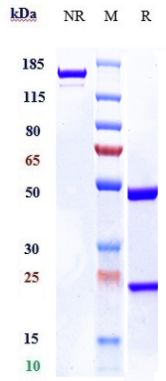
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<b>Name</b>	RTN4 ( <a href="#">HGNC:14085</a> )
<b>Function</b>	Required to induce the formation and stabilization of endoplasmic reticulum (ER) tubules (PubMed: <a href="#">24262037</a> , PubMed: <a href="#">25612671</a> , PubMed: <a href="#">27619977</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
<b>Tissue Location</b>	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

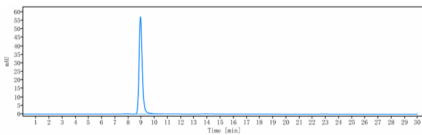
expressed in endothelial cells and vascular smooth muscle cells, including blood vessels and mesenteric arteries (PubMed:15034570, PubMed:21183689). Isoform C: is expressed in brain, skeletal muscle and adipocytes. Isoform D is testis-specific.

## Images

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Anti-RTN4 / NOGO Reference Antibody (atinumab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%



The purity of Anti-RTN4 / NOGO Reference Antibody (atinumab) is more than 95% ,determined by SEC-HPLC.

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