

**Anti-RTN4 / NOGO Reference Antibody (atinumab)
Recombinant Antibody
Catalog # APR10420****Specification**

Anti-RTN4 / NOGO Reference Antibody (atinumab) - Product Information

Application	FC, E, FTA
Primary Accession	O9NOC3
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG4SP
Calculated MW	145 KDa

Anti-RTN4 / NOGO Reference Antibody (atinumab) - Additional Information**Target/Specificity**
RTN4 / NOGO**Endotoxin**
< 0.001EU/ µg,determined by LAL method.**Conjugation**
Unconjugated**Expression system**
CHO Cell**Format**
Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.**Anti-RTN4 / NOGO Reference Antibody (atinumab) - Protein Information****Name** RTN4 ([HGNC:14085](#))**Function**

Required to induce the formation and stabilization of endoplasmic reticulum (ER) tubules (PubMed:24262037, PubMed:25612671, PubMed:27619977). They regulate membrane morphogenesis in the ER by promoting tubular ER production (PubMed:24262037, PubMed:25612671, PubMed:27619977, 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).

Cellular Location

[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

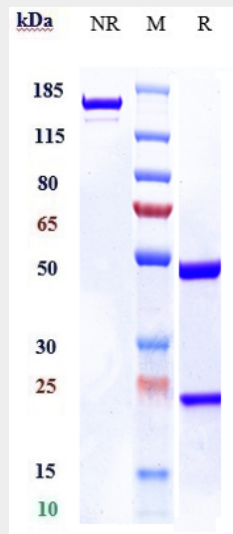
Isoform A: is specifically expressed in brain and testis and weakly in heart and skeletal muscle. Isoform B: widely expressed except for the liver. Highly expressed in endothelial cells and vascular smooth muscle cells, including blood vessels and mesenteric arteries (PubMed:15034570, PubMed:21183689).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

Anti-RTN4 / NOGO Reference Antibody (atinumab) - Protocols

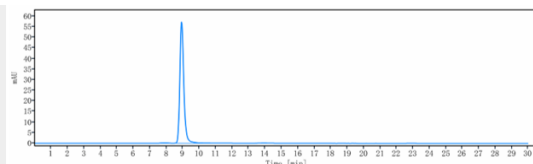
Provided below are standard protocols that you may find useful for product applications.

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

Anti-RTN4 / NOGO Reference Antibody (atinumab) - Images



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.