

For Research Use Only

# CoraLite® Plus 488-conjugated RTN4/NOGO Polyclonal antibody

Catalog Number:CL488-10740



## Basic Information

<b>Catalog Number:</b> CL488-10740	<b>GenBank Accession Number:</b> BC007109	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 57142	<b>Recommended Dilutions:</b> IF/ICC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9NQC3	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Isotype:</b> IgG	<b>Full Name:</b> reticulon 4	
<b>Immunogen Catalog Number:</b> AG1164	<b>Calculated MW:</b> 130 kDa	
	<b>Observed MW:</b> 190-210 kDa, 45 kDa, 22-25 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC	<b>Positive Controls:</b> IF/ICC : A549 cells,
<b>Species Specificity:</b> human, mouse, rat	

## Background Information

Reticulon (RTN) proteins are a group of membrane-bound proteins that largely reside in endoplasmic reticulum (ER) (PMID: 18177508). Reticulon proteins share a common sequence feature, the reticulon homology domain (RHD). They are involved in shaping the tubular endoplasmic reticulum network, membrane trafficking, inhibition of axonal growth, and apoptosis (PMID: 24218324). Four mammalian reticulons (RTN1-4) exist. RTN4 (also known as Neurite outgrowth inhibitor or Nogo) is a myelin-associated neurite growth inhibitory protein. Some isoforms of RTN4 have been described. RTN4A (Nogo-A, runs at ~200 kDa), RTN4B (Nogo-B, 40-55 kDa), and RTN4C (Nogo-C, 22-25 kDa) are three major isoforms (PMID: 31092426; 16469703).

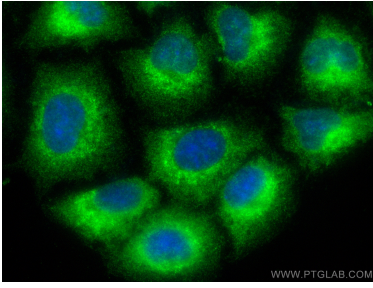
## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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## Selected Validation Data



Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using CoraLite® Plus 488 RTN4/NOGO antibody (CL488-10740) at dilution of 1:200.