

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

Catalog Number: **CL488-10740**

## Basic Information

**Catalog Number:**

CL488-10740

**Size:**

1000 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG1164

**GenBank Accession Number:**

BC007109

**GeneID (NCBI):**

57142

**UNIPROT ID:**

Q9NQC3

**Full Name:**

reticulon 4

**Calculated MW:**

130 kDa

**Observed MW:**

190-210 kDa, 45 kDa, 22-25 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

IF/ICC 1:50-1:500

**Excitation/Emission maxima wavelengths:**

493 nm / 522 nm

## Applications

**Tested Applications:**

IF/ICC

**Species Specificity:**

human, mouse, rat

**Positive Controls:**

IF/ICC : A549 cells,

## 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.

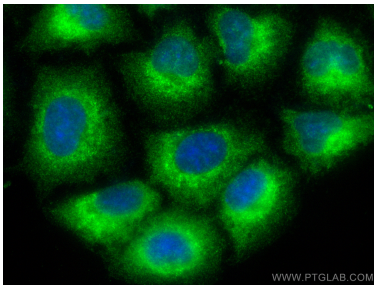
**Storage Buffer:**

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

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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.