

For Research Use Only

# RTN4IP1 Polyclonal antibody

Catalog Number: 15636-1-AP



## Basic Information

**Catalog Number:**

15636-1-AP

**Size:**

150ul, Concentration: 500 ug/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG8100

**GenBank Accession Number:**

BC006399

**GeneID (NCBI):**

84816

**UNIPROT ID:**

Q8WWV3

**Full Name:**

reticulon 4 interacting protein 1

**Calculated MW:**

396 aa, 44 kDa

**Observed MW:**

32-44 kDa, 24 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:8000

IF/ICC 1:200-1:800

## Applications

**Tested Applications:**

WB, IF/ICC, ELISA

**Species Specificity:**

human

**Positive Controls:**

WB : A549 cells, HeLa cells, Jurkat cells, MCF-7 cells

IF/ICC : HepG2 cells,

## Background Information

RTN4IP1 (Reticulon-4-interacting protein 1, mitochondrial), also known as NIMP. It colocalizes with the endoplasmic reticulum HSPA5 at spots corresponding to contacts with mitochondria (PMID: 26593267), which is widely expressed in mitochondria-enriched tissues. Found in heart, muscle, kidney, liver, brain and placenta (PMID: 12067236). The protein plays a role in the regulation of retinal ganglion cell (RGC) neurite outgrowth, and hence in the development of the inner retina and optic nerve. Appears to be a potent inhibitor of regeneration following spinal cord injury. The protein has three isoforms with molecular weights of 43 kDa, 32 kDa and 24 kDa respectively.

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

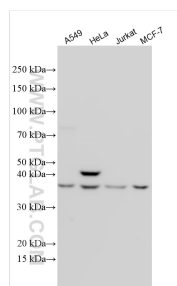
For technical support and original validation data for this product please contact:

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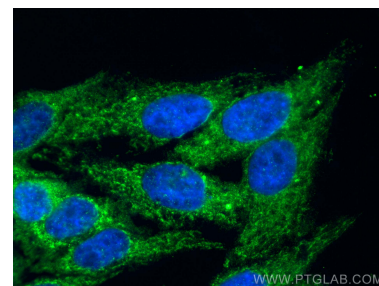
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 15636-1-AP (RTN4IP1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using RTN4IP1 antibody (15636-1-AP) at dilution of 1:400 and CoraLite® 594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4), CL488-Phalloidin (green).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using RTN4IP1 antibody (15636-1-AP) at dilution of 1:100 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).