

For Research Use Only

# RTN2 Polyclonal antibody

Catalog Number: 11168-1-AP

Featured Product

4 Publications



## Basic Information

<b>Catalog Number:</b> 11168-1-AP	<b>GenBank Accession Number:</b> BC014244	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 350 µg/ml by Nanodrop and 300 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 6253	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:20-1:200
<b>Source:</b> Rabbit	<b>Full Name:</b> reticulon 2	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 59 kDa, 51 kDa, 22 kDa	
<b>Immunogen Catalog Number:</b> AG1655	<b>Observed MW:</b> 20-23 kDa	

## Applications

### Tested Applications:

IHC, WB, ELISA

### Cited Applications:

IHC, IP, WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : mouse skeletal muscle tissue, human skeletal muscle tissue

IHC : human skeletal muscle tissue,

## 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. Human RTN2 gene produces three isoforms termed RTN2-A, RTN2-B, and RTN2-C. Isoform RTN2-C has a calculated molecular weight of 22 kDa and is highly expressed in skeletal muscle.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiaojiao Zheng	36177918	Mol Med Rep	IHC
Shushu Song	35428758	Cell Death Dis	WB,IHC
Hector Foronda	37225994	Nature	WB

## 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

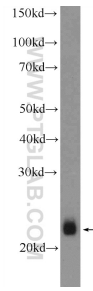
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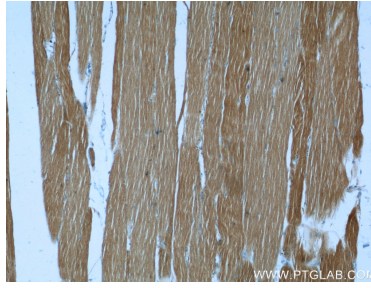
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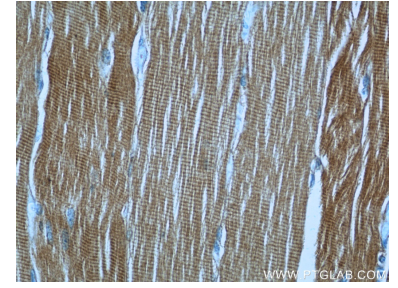
## Selected Validation Data



mouse skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 11168-1-AP (RTN2 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human skeletal muscle slide using 11168-1-AP (RTN2 Antibody) at dilution of 1:50.



Immunohistochemical analysis of paraffin-embedded human skeletal muscle slide using 11168-1-AP (RTN2 Antibody) at dilution of 1:50.