

For Research Use Only

# MCOLN1 Polyclonal antibody

Catalog Number: 15291-1-AP

2 Publications



## Basic Information

### Catalog Number:

15291-1-AP

### Size:

150ul, Concentration: 450 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG7493

### GenBank Accession Number:

BC005149

### GeneID (NCBI):

57192

### UNIPROT ID:

Q9GZU1

### Full Name:

mucolipin 1

### Calculated MW:

65 kDa

### Observed MW:

60-65 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

**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 : human placenta tissue, mouse kidney tissue, rat kidney tissue

IHC : mouse brain tissue,

IF/ICC : U2OS cells,

## Background Information

MCOLN1, also named MLIV, ML4, MG-2, and Mucolipidin, belongs to the transient receptor (TC 1.A.4) family, Polycystin subfamily, and MCOLN1 sub-subfamily. It is playing a role in the endocytic pathway and in the control of membrane trafficking of proteins and lipids. MCOLN1 may play a major role in Ca<sup>2+</sup> transport regulating lysosomal exocytosis. It is an autosomal recessive lysosomal storage disorder characterized by severe psychomotor retardation and ophthalmologic abnormalities, including corneal opacity, retinal degeneration, and strabismus.

## Notable Publications

Author	Pubmed ID	Journal	Application
Tingting Peng	39173889	Biochim Biophys Acta Mol Basis Dis	WB
Kui Wang	37471054	Autophagy	

## 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

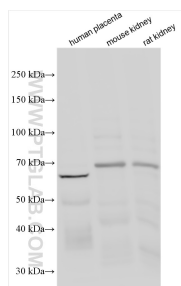
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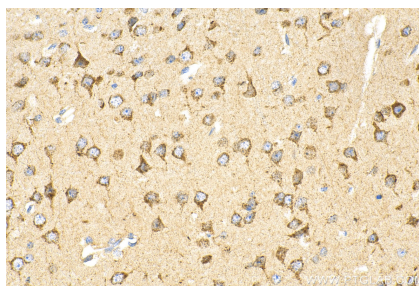
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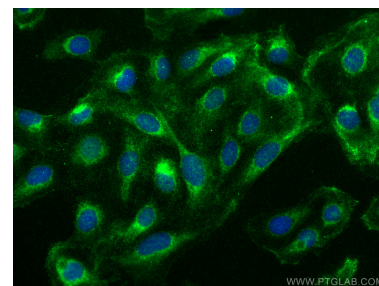
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 15291-1-AP (MCOLN1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 15291-1-AP (MCOLN1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed U2OS cells using MCOLN1 antibody (15291-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).