

For Research Use Only

# ORP1L Polyclonal antibody

Catalog Number: 25268-1-AP



## Basic Information

### Catalog Number:

25268-1-AP

### Size:

150ul , Concentration: 350 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_018030

### GeneID (NCBI):

114876

### UNIPROT ID:

Q9BXW6

### Full Name:

oxysterol binding protein-like 1A

### Calculated MW:

108 kDa

### Observed MW:

50 kDa, 105-110 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:3000

## Applications

### Tested Applications:

WB, ELISA

### Species Specificity:

human, mouse, rat

### Positive Controls:

WB : mouse brain tissue, rat brain tissue

## Background Information

ORP1L (Oxysterol-binding protein-related protein 1L) is a lipid transfer protein that belongs to the family of OSBP-related proteins (ORPs). It is recruited to lysosomes via its ankyrin repeat domains that bind to Rab7 (PMID: 34504082). ORP1L also possesses an FFAT motif, which allows it to interact with the ER resident VAP proteins to aid in establishing the ER-lysosomes contacts. ORP1L is expressed in various tissues, with particularly high expression in the brain, lungs, and macrophages. ORP1L plays a crucial role in cholesterol homeostasis. Disruption of ORP1L function can lead to a block in cholesterol transport to the ER, resulting in the accumulation of cholesterol-enriched LELs in the Golgi/perinuclear region. This can disrupt cellular cholesterol balance, potentially contributing to various metabolic diseases. This suggests that ORP1L is necessary for the normal functioning of cholesterol export from the endo-lysosomal system to the ER, and its dysfunction could be implicated in the progression of diseases related to cholesterol metabolism dysregulation (PMID: 28564600). The molecular weight of ORP1L is 50 kDa.

## 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

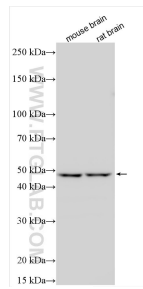
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 25268-1-AP (ORP1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.