

For Research Use Only

ORP1L Polyclonal antibody, PBS Only

Catalog Number:25268-1-PBS



Basic Information

Catalog Number: 25268-1-PBS	GenBank Accession Number: NM_018030	Purification Method: Antigen affinity purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 114876	
Source: Rabbit	UNIPROT ID: Q9BXW6	
Isotype: IgG	Full Name: oxysterol binding protein-like 1A	
	Calculated MW: 108 kDa	
	Observed MW: 50 kDa, 105-110 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human, mouse, rat

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

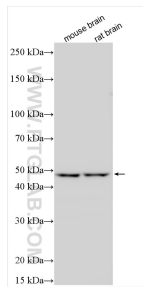
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
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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. This data was developed using the same antibody clone with 25268-1-PBS in a different storage buffer formulation.