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# OSBPL10 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18381b

## Product Information

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| **Application** | WB, E |
| **Primary Accession** | Q9BXB5 |
| **Other Accession** | NP_001167531.1 |
| **Reactivity** | Human |
| **Predicted** | Mouse, Rat, Bovine, Canine, Rabbit |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB38321 |
| **Calculated MW** | 83970 |
| **Antigen Region** | 669-695 |

## Additional Information

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| **Gene ID** | 114884 |
| **Other Names** | Oxysterol-binding protein-related protein 10, ORP-10, OSBP-related protein 10, OSBPL10, ORP10, OSBP9 |
| **Target/Specificity** | This OSBPL10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 669-695 amino acids from the C-terminal region of human OSBPL10. |
| **Dilution** | WB~~1:1000 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | OSBPL10 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | OSBPL10 ( HGNC:16395) |
| **Synonyms** | ORP10, OSBP9 |

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| **Function** | Lipid transporter involved in lipid countertransport between the endoplasmic reticulum and the plasma membrane. Its ability to bind phosphatidylserine, suggests that it specifically exchanges phosphatidylserine with phosphatidylinositol 4-phosphate (PI4P), delivering phosphatidylserine to the plasma membrane in exchange for PI4P (Probable) (PubMed:23934110). Plays a role in negative regulation of lipid biosynthesis (PubMed:19554302). Interacts with OSBPL9 to function as lipid transfer proteins (PubMed:36853333). Together they form a heterodimer that localizes at the ER-trans-Golgi membrane contact sites, and exchanges phosphatidylserine (1,2-diacyl-sn-glycero- 3-phospho-L-serine, PS) for phosphatidylinositol-4-phosphate (1,2-diacyl-sn-glycero-3-phospho-(1D-myo-inositol 4-phosphate), PI(4)P) between the two organelles, a step that is critical for sphingomyelin synthesis in the Golgi complex (PubMed:36853333). Negatively regulates APOB secretion from hepatocytes (PubMed:19554302, PubMed:22906437). Binds cholesterol and acidic phospholipids (PubMed:22906437). Also binds 25-hydroxycholesterol (PubMed:17428193). Binds phosphatidylserine (PubMed:23934110). |
| **Cellular Location** | Cytoplasm, cytoskeleton. Late endosome membrane. Golgi apparatus, trans-Golgi network membrane. Endoplasmic reticulum-Golgi intermediate compartment membrane. Note=Associates with microtubules Localizes at the Golgi-late endosome interface (PubMed:22906437) |

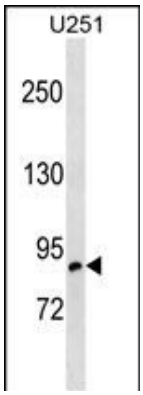
## Background

This gene encodes a member of the oxysterol-binding protein (OSBP) family, a group of intracellular lipid receptors. Like most members, the encoded protein contains an N-terminal pleckstrin homology domain and a highly conserved C-terminal OSBP-like sterol-binding domain. Multiple transcript variants encoding different isoforms have been found for this gene.

## References


Koriyama, H., et al. J. Atheroscler. Thromb. 17(10):1054-1062(2010)
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Koriyama, H., et al. Hypertens. Res. 33(5):511-514(2010)
Perttila, J., et al. J. Mol. Med. 87(8):825-835(2009)
Ma, J., et al. Atherosclerosis 191(1):63-72(2007)


## Images




OSBPL10 Antibody (C-term) (Cat. #AP18381b) western blot analysis in U251 cell line lysates (35ug/lane).This demonstrates the OSBPL10 Antibody detected the OSBPL10 protein (arrow).


Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.