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OSBPL10 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18381b

Product Information

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

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

Name	OSBPL10 (HGNC:16395)
Synonyms	ORP10, OSBP9

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)

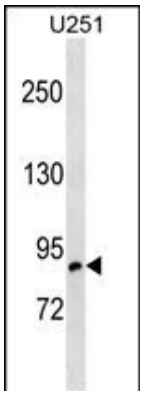
Background

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'.