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OSBPL3 Rabbit pAb

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Catalog # AP56727

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9H4L5
Reactivity	Rat, Mouse
Predicted	Dog, Human, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	101224
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human OSBPL3
Epitope Specificity	51-150/887
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of the oxysterol-binding protein (OSBP) family, a group of intracellular lipid receptors. Most members contain an N-terminal pleckstrin homology domain and a highly conserved C-terminal OSBP-like sterol-binding domain. The encoded protein is involved in the regulation of cell adhesion and organization of the actin cytoskeleton. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]

Additional Information

Gene ID	26031
Other Names	Oxysterol-binding protein-related protein 3, ORP-3, OSBP-related protein 3, Phosphoinositide transfer protein, OSBPL3, KIAA0704, ORP3, OSBP3
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

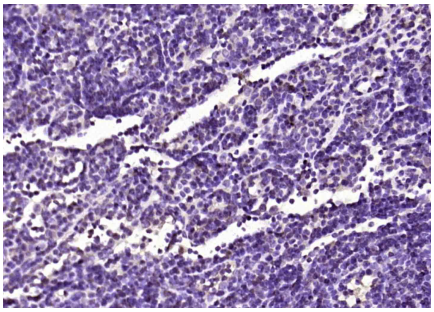
Name	OSBPL3

Synonyms	KIAA0704, ORP3, OSBP3
Function	Lipid transfer protein that mediates the non-vesicular transport of phosphoinositide 4-phosphate (1,2-diacyl-sn-glycero-3-phospho-(1D-myo-inositol 4-phosphate), or PI(4)P) at the plasma membrane (PM)/ endoplasmic reticulum (ER) contact sites (PubMed:16143324, PubMed:32041906, PubMed:32234213). Extracts PI4P from the PM, in exchange for phosphatidylcholine (PubMed:32234213). Can bind to the ER membrane protein VAPA and recruit VAPA to PM sites, thus linking these intracellular compartments (PubMed:25447204). The ORP3- VAPA complex stimulates RRAS signaling which in turn attenuates integrin beta-1 (ITGB1) activation at the cell surface (PubMed:18270267, PubMed:25447204). With VAPA, may regulate ER morphology (PubMed:16143324). Has a role in regulation of the actin cytoskeleton, cell polarity and cell adhesion (PubMed:18270267). Binds to phosphoinositides with preference for PI(3,4)P2 and PI(3,4,5)P3 (PubMed:16143324). Also binds 25-hydroxycholesterol and cholesterol (PubMed:17428193).
Cellular Location	Endoplasmic reticulum membrane; Peripheral membrane protein. Cytoplasm, cytosol. Cell membrane; Peripheral membrane protein. Cell projection, filopodium tip. Nucleus membrane; Peripheral membrane protein. Note=Co-localizes with OSBPL6 at contact sites between the plasma membrane and the endoplasmic reticulum {ECO:0000250|UniProtKB:Q9DBS9}
Tissue Location	Expressed in a subset of small lymphocytes (at protein level). Expressed at high concentration in kidney, lymph node and thymus. Expressed at moderate concentration in stomach, jejunum, ileum, appendix, spleen, leukocytes, trachea, lung and thyroid gland Expressed at low concentration in whole brain, esophagus, duodenum, ileocecum, colon, skeletal muscle, bone marrow, placenta and mammary gland (PubMed:14593528). Isoform 1a, isoform 1b, isoform 1c and isoform 1d are highly expressed in brain, bone marrow, colon, kidney, lung, skeletal muscle, spleen, thymus and thyroid. Not expressed in heart and liver. Isoform 2a, isoform 2b, isoform 2c and isoform 2d are expressed in brain, bone marrow, kidney, skeletal muscle, spleen, thymus and thyroid. Not expressed in heart, liver and lung (PubMed:12590732)

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (mouse bladder); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (OSBPL3) Polyclonal Antibody, Unconjugated (AP56727) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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