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ORP8 Rabbit pAb

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Catalog # AP58420

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9BZF1
Predicted	Rat, Pig, Dog, Human, Mouse, Chicken, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	101196
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ORP8
Epitope Specificity	121-220/889
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Endoplasmic reticulum
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	ORP8 is a member of the oxysterol-binding protein related protein family. In humans, the gene family consists of 12 members, and extensive splice variation increases the number of encoded protein products substantially. The ORPs have been implicated as sterol sensors that regulate a number of cellular functions including sterol and neutral lipid metabolism, intracellular lipid transport, membrane trafficking and cell signaling. ORP8 has been recently shown to act as a sterol sensor that affects the reverse cholesterol transport process via modulation of ABCA1 expression and macrophage cholesterol efflux.

Additional Information

Gene ID	114882
Other Names	Oxysterol-binding protein-related protein 8, ORP-8, OSBP-related protein 8, OSBPL8, KIAA1451 {ECO:0000303|PubMed:10819331}, ORP8, OSBP10
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	OSBPL8 (HGNC:16396)
Function	Lipid transporter involved in lipid countertransport between the endoplasmic reticulum and the plasma membrane: specifically exchanges phosphatidylserine with phosphatidylinositol 4-phosphate (PI4P), delivering phosphatidylserine to the plasma membrane in exchange for PI4P, which is degraded by the SAC1/SACM1L phosphatase in the endoplasmic reticulum. Binds phosphatidylserine and PI4P in a mutually exclusive manner (PubMed:26206935). Binds oxysterol, 25- hydroxycholesterol and cholesterol (PubMed:17428193, PubMed:17991739, PubMed:21698267).
Cellular Location	[Isoform 1]: Endoplasmic reticulum membrane; Single-pass membrane protein. Nucleus membrane. Note=The presence of the N-terminus extension contains an overall negative charge that may explain the weak localization to the cortical endoplasmic reticulum (Probable)
Tissue Location	Widely expressed (PubMed:11735225). Expressed at higher level in macrophages (PubMed:17991739)

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