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Rabbit Anti-ORP4/OSBP2 antibody

SL6560R

Product Name:	ORP4/OSBP2
Chinese Name:	氧化固醇Binding protein4抗体
Alias:	ORP 4; ORP4; OSBLP4; OSBP-related protein 4; OSBP2; OSBPL1; OSBPL4; Oxysterol Binding Protein 2; Oxysterol Binding Protein-like 1; oxysterol binding protein-related protein 4; OSBP2_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	101kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ORP4/OSBP2:221-320/916
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	The Oxysterol-binding protein (OSBP) family of proteins consist of OSBP (OSBP1) and OSBP2 (ORP-4), which share a high overall similarity. OSBPs are involved in lipid metabolism and signal transduction, as well as vesicle transport, and can translocate to the periphery of Golgi membranes when they are bound to oxysterols. The OSBP protein transports sterols from lysosomes to the nucleus, where sterols downregulate the

genes for HMG synthetase, HMG-CoA reductase and the low density lipoprotein receptor (LDLR). OSBP localizes to the cytosol and is widely expressed, while OSBP2 is mainly detected in testis, retina and fetal liver. The extracellular signal-regulated kinase (ERK) signaling pathway is controlled by OSBP via its cholesterol-binding properties. OSBP binds with a high affinity to 25-hydroxy-cholesterol (25-HC), a suppressor of cholesterol synthesis gene transcription in cultured cells.

Function:
Binds 7-ketocholesterol.

Subcellular Location:
Membrane; Peripheral membrane protein

Tissue Specificity:
Expressed mainly in retina, testis, and fetal liver.

Similarity:
Belongs to the OSBP family.
Contains 1 PH domain.

SWISS:
Q969R2

Gene ID:
23762

Database links:

Entrez Gene: 23762 Human

Entrez Gene: 74309 Mouse

Entrez Gene: 305475 Rat

Omim: 606729 Human

SwissProt: Q969R2 Human

Unigene: 7740 Human

Unigene: 61022 Mouse

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
