SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-ORP4/OSBP2/HRP Conjugated antibody

Catalog Number: SL6560R-HRP

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-ORP4/OSBP2/HRP
Immunogen:	KLH conjugated synthetic peptide derived from human ORP4/OSBP2 (231-280aa)
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human(predicted:Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit)
Background:	background: 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.

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

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	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. **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.

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