10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Goat Anti-OSBP1 (C Terminus) Antibody

Peptide-affinity purified goat antibody
Catalog # AF1763a

Specification

Goat Anti-OSBP1 (C Terminus) Antibody - Product Information

Application	**WB**
Primary Accession	P22059
Other Accession	NP_002547, 5007
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**89421**

Goat Anti-OSBP1 (C Terminus) Antibody - Additional Information

Gene ID 5007

Other Names
Oxysterol-binding protein 1, OSBP, OSBP1

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-OSBP1 (C Terminus) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-OSBP1 (C Terminus) Antibody - Protein Information

Name OSBP (HGNC:8503)

Synonyms OSBP1

Function
Lipid transporter involved in lipid countertransport between the Golgi complex and membranes of the endoplasmic reticulum: specifically exchanges sterol with phosphatidylinositol 4-phosphate (PI4P), delivering sterol to the Golgi in exchange for PI4P, which is degraded by the SAC1/SACM1L phosphatase in the endoplasmic reticulum (PubMed:24209621). Binds

cholesterol and a range of oxysterols including 25-hydroxycholesterol (PubMed:15746430, PubMed:17428193). Cholesterol binding promotes the formation of a complex with PP2A and a tyrosine phosphatase which dephosphorylates ERK1/2, whereas 25- hydroxycholesterol causes its disassembly (PubMed:15746430). Regulates cholesterol efflux by decreasing ABCA1 stability (PubMed:18450749).

Cellular Location
Cytoplasm, cytosol. Cytoplasm, perinuclear region. Golgi apparatus membrane; Peripheral membrane protein. Endoplasmic reticulum membrane; Peripheral membrane protein Golgi apparatus, trans-Golgi network Note=Predominantly cytosolic.

Tissue Location
Widely expressed..

Goat Anti-OSBP1 (C Terminus) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-OSBP1 (C Terminus) Antibody - Images



AF1763a (2 µg/ml) staining of Human Liver lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-OSBP1 (C Terminus) Antibody - Background

Oxysterol binding protein is an intracellular protein that is believed to transport sterols from lysosomes to the nucleus where the sterol down-regulates the genes for the LDL receptor, HMG-CoA reductase, and HMG synthetase

Goat Anti-OSBP1 (C Terminus) Antibody - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.
Functional implications of sterol transport by the oxysterol-binding protein gene family. Ngo MH, et al. Biochem J, 2010 Jul 1. PMID 20545625.
Electrostatic interaction between oxysterol-binding protein and VAMP-associated protein A revealed by NMR and mutagenesis studies. Furuita K, et al. J Biol Chem, 2010 Apr 23. PMID 20178991.
Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.
Role of oxysterol binding protein in hepatitis C virus infection. Amako Y, et al. J Virol, 2009 Sep. PMID 19570870.