

Goat Anti-OSBP Antibody
Peptide-affinity purified goat antibody
Catalog # AF1762a

Specification

Goat Anti-OSBP Antibody - Product Information

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

Goat Anti-OSBP 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-OSBP Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-OSBP 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:<a

[24209621](http://www.uniprot.org/citations/24209621)). Binds cholesterol and a range of oxysterols including 25-hydroxycholesterol (PubMed:[15746430](http://www.uniprot.org/citations/15746430), PubMed:[17428193](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/15746430)). Regulates cholesterol efflux by decreasing ABCA1 stability (PubMed:[18450749](http://www.uniprot.org/citations/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-OSBP 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 Cytometry](#)
- [Cell Culture](#)

Goat Anti-OSBP Antibody - Images



AF1762a (0.1 µg/ml) staining of Human Placenta lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-OSBP 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-OSBP Antibody - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-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.