

**OSBP Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP11453c****Specification**

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**OSBP Antibody (Center) Blocking peptide - Product Information**Primary Accession [P22059](#)**OSBP Antibody (Center) Blocking peptide - Additional Information****Gene ID** 5007**Other Names**

Oxysterol-binding protein 1, OSBP, OSBP1

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**OSBP Antibody (Center) Blocking peptide - 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 href="http://www.uniprot.org/citations/24209621" target="\_blank">24209621</a>). Binds cholesterol and a range of oxysterols including 25-hydroxycholesterol (PubMed:<a href="http://www.uniprot.org/citations/15746430" target="\_blank">15746430</a>, PubMed:<a href="http://www.uniprot.org/citations/17428193" target="\_blank">17428193</a>). 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:<a href="http://www.uniprot.org/citations/15746430" target="\_blank">15746430</a>). Regulates cholesterol efflux by decreasing ABCA1 stability (PubMed:<a href="http://www.uniprot.org/citations/18450749" target="\_blank">18450749</a>).

**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..

**OSBP Antibody (Center) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**OSBP Antibody (Center) Blocking peptide - Images****OSBP Antibody (Center) Blocking peptide - 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

**OSBP Antibody (Center) Blocking peptide - References**

Bailey, S.D., et al. Diabetes Care (2010) In press :Ngo, M.H., et al. Biochem. J. 429(1):13-24(2010)Furuita, K., et al. J. Biol. Chem. 285(17):12961-12970(2010)Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)Amako, Y., et al. J. Virol. 83(18):9237-9246(2009)