OSBP Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	OSBP, Blocking Peptide
Full Product Name	OSBP Blocking Peptide
Product Gene Name	OSBP blocking peptide
Product Synonym Names	OSBP 1; OSBP; OSBP1_HUMAN; Oxysterol binding protein 1; Oxysterol-binding protein 1
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	OSBP peptide (MBS9620833) is used for blocking the activity of OSBP antibody (MBS9603356)
Molecular Weight	89,421 Da
OMIM	167040
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for OSBP blocking peptide	Blocking/Control
Related Product Information for OSBP blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of OSBP blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for OSBP purchase	MBS9620833 is a blocking peptide targeting OSBP.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for OSBP. It may not necessarily be applicable to this product.

NCBI GI #	4505531
NCBI GeneID	5007
NCBI Accession #	NP_002547.1
UniProt Primary Accession #	P22059
UniProt Secondary Accession #	Q6P524
UniProt Related Accession #	P22059

GenBank Nucleotide #	NM_002556.2
NCBI Official Full Name	oxysterol-binding protein 1
NCBI Official Synonym Full Names	oxysterol binding protein
NCBI Official Symbol	OSBP
NCBI Official Synonym Symbols	OSBP1
UniProt Protein Name	Oxysterol-binding protein 1
Protein Family	Oxysterol-binding protein
UniProt Gene Name	OSBP
UniProt Synonym Gene Names	OSBP1
UniProt Entry Name	OSBP1_HUMAN
NCBI Protein Information	oxysterol-binding protein 1
NCBI Summary for OSBP	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 [provided by RefSeq, Jul 2008]
UniProt Comments for OSBP	OSBP: Binds cholesterol and a range of oxysterols. Cholesterol binding promotes the formation of a complex with PP2A and a tyrosine phosphatase which dephosphorylate ERK1/2, whereas 25- hydroxycholesterol causes its disassembly. Regulates cholesterol efflux by decreasing ABCA1 stability. Belongs to the OSBP family. Protein type: Lipid-binding Chromosomal Location of Human Ortholog: 11q12-q13 Cellular Component: Golgi membrane; nucleoplasm; Golgi apparatus; cytoplasm; nucleolus; nucleus; cell junction Molecular Function: protein domain specific binding; protein binding; oxysterol binding Biological Process: lipid transport
Research Articles on OSBP	**1.** Our results identify OspB as a regulator of mTORC1 and mTORC1-dependent cell proliferation early during S. flexneri infection and establish a role for IQGAP1 in mTORC1 signaling
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