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

PRODUCT OVERVIEW

Product Name	Occludin (OCLN), Blocking Peptide
Full Product Name	Occludin Blocking Peptide
Product Gene Name	OCLN blocking peptide
Product Synonym Names	BLCPMG; FLJ08163; FLJ18079; FLJ77961; FLJ94056; MGC34277; Occludin; Ocln; OCLN_HUMAN; Tight junction protein occludin
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	Occludin peptide (MBS9616595) is used for blocking the activity of Occludin antibody (MBS9613313)
Molecular Weight	59,144 Da
Chromosome Location	Chromosome: 5; NC_000005.9 (68788119..68853931). Location: 5q13.1
OMIM	251290
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 OCLN blocking peptide	Blocking/Control
Related Product Information for OCLN 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 OCLN 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 OCLN purchase	MBS9616595 is a blocking peptide targeting OCLN. Also known as Occludin Blocking Peptide.

ADDITIONAL DETAILS

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

NCBI GI #	327478416
NCBI GeneID	100506658
NCBI Accession #	NP_001192184.1
UniProt Primary Accession #	Q16625
UniProt Secondary Accession #	Q5U1V4; Q8N6K1; B5BU70; D2DU64; D2DU65; D2IGC0; D2IGC1; E2CYV9

UniProt Related Accession #	Q16625
GenBank Nucleotide #	NM_001205255.1
NCBI Official Full Name	occludin isoform b
NCBI Official Synonym Full Names	occludin
NCBI Official Symbol	OCLN
NCBI Official Synonym Symbols	BLCPMG
UniProt Protein Name	Occludin
Protein Family	Occludin
UniProt Gene Name	OCLN
UniProt Entry Name	OCLN_HUMAN
NCBI Protein Information	occludin; tight junction protein occludin
NCBI Summary for OCLN	This gene encodes an integral membrane protein that is required for cytokine-induced regulation of the tight junction paracellular permeability barrier. Mutations in this gene are thought to be a cause of band-like calcification with simplified gyration and polymicrogyria (BLC-PMG), an autosomal recessive neurologic disorder that is also known as pseudo-TORCH syndrome. Alternative splicing results in multiple transcript variants. A related pseudogene is present 1.5 Mb downstream on the q arm of chromosome 5. [provided by RefSeq, Apr 2011]
UniProt Comments for OCLN	occludin: May play a role in the formation and regulation of the tight junction (TJ) paracellular permeability barrier. It is able to induce adhesion when expressed in cells lacking tight junctions. Interacts with TJP1/ZO1 and with VAPA. Localized at tight junctions of both epithelial and endothelial cells. Highly expressed in kidney. Not detected in testis. Belongs to the ELL/occludin family. 7 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, multi-pass; Cell adhesion; Membrane protein, integral; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 5q13.1 Cellular Component: tight junction; apicolateral plasma membrane; endocytic vesicle; apical plasma membrane; integral to membrane; plasma membrane; intercellular junction; cytoplasmic vesicle; cell junction; cytosol Molecular Function: thiopurine S-methyltransferase activity; protein domain specific binding; protein binding; structural molecule activity Biological Process: methylation; intercellular junction assembly and maintenance; apoptosis; S-adenosylmethionine metabolic process; S-adenosylhomocysteine metabolic process; protein complex assembly; cell structure disassembly during apoptosis Disease: Band-like Calcification With Simplified Gyration And Polymicrogyria
Research Articles on OCLN	**1.** Loss of occludin is involved in adhesion, apoptosis, differentiation, Ca2+-homeostasis and neoplastic transformation in UV-exposed human keratinocytes and in skin neoplasms.
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