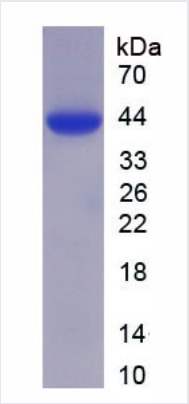
Occludin (OCLN) Recombinant Protein

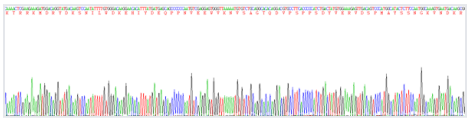
PRODUCT OVERVIEW

Product Name	Occludin (OCLN), Recombinant Protein
Full Product Name	Recombinant Occludin (OCLN)
Product Gene Name	OCLN recombinant protein
Product Synonym Names	Tight Junction Protein Occludin TM4 Minus
Host	E Coli
Form/Format	Freeze-dried powder 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Purity/Purification	>90%
Preparation and Storage	Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles. Stability: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: OCLN (MBS2112213) Immunogen: OCLN (MBS2122934)
Matching Pairs	Biotin Conjugated Antibody: OCLN (MBS2113472) Immunogen: OCLN (MBS2122934)
Matching Pairs	FITC Conjugated Antibody: OCLN (MBS2114724) Immunogen: OCLN (MBS2122934)
Matching Pairs	HRP Conjugated Antibody: OCLN (MBS2116067) Immunogen: OCLN (MBS2122934)
Matching Pairs	APC-CY7 Conjugated Antibody: OCLN (MBS2117411) Immunogen: OCLN (MBS2122934)
Matching Pairs	PE Conjugated Antibody: OCLN (MBS2118755) Immunogen: OCLN (MBS2122934)
Matching Pairs	APC Conjugated Antibody: OCLN (MBS2120099) Immunogen: OCLN (MBS2122934)
Matching Pairs	Cy3 Conjugated Antibody: OCLN (MBS2121586) Immunogen: OCLN (MBS2122934)
Molecular Weight	Predicted Molecular Mass: 33.8kDa Accurate Molecular Mass: 42kDa
Sequence Positions	Lys266~Thr522
OMIM	251290
3D Structure	ModBase 3D Structure for Q16625
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Source	Prokaryotic expression
Species	Human

Tag	N-terminal His Tag
Subcellular Location	Membrane
Isoelectric Point	5.5
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Product Categories/Family for OCLN recombinant protein	Signal transduction
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for OCLN recombinant protein	Positive Control, Immunogen, SDS-PAGE, Western Blot (WB)
Related Product Information for OCLN recombinant protein	MBS2122934 is a recombinant protein targeting OCLN. Also known as Recombinant Occludin (OCLN). Host: E Coli.
Other Notes	Small volumes of OCLN recombinant protein 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.



SDS-Page of OCLN recombinant protein
Figure. SDS-PAGE



Gene Sequencing of OCLN recombinant protein
Figure. Gene Sequencing (Extract)

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 Related Accession #	Q16625
GenBank Nucleotide #	NP_001192184.1
NCBI Official Full Name	occludin isoform b
NCBI Official Synonym Full Names	occludin
NCBI Official Symbol	OCLN
NCBI Official Synonym Symbols	BLCPMG; PTORCH1; PPP1R115
UniProt Protein Name	Occludin
Protein Family	Occludin

UniProt Gene Name	OCLN
UniProt Entry Name	OCLN_HUMAN
NCBI Protein Information	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.** miR-424-5p could affect the expression of tight junction proteins, ZO-1 and occludin, via Endophilin-1, and thereby regulate blood brain barrier (BBB) permeability in an BBB model in vitro with Amyloid-beta incubated endothelial cells.
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