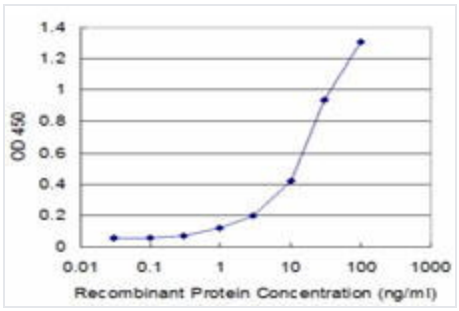
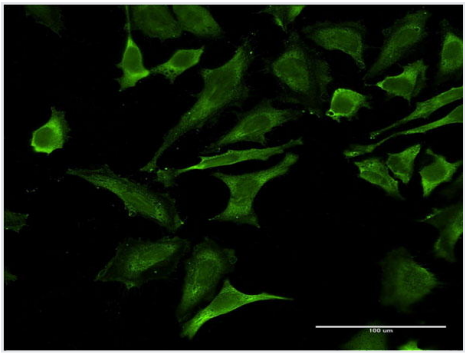
OCLN Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

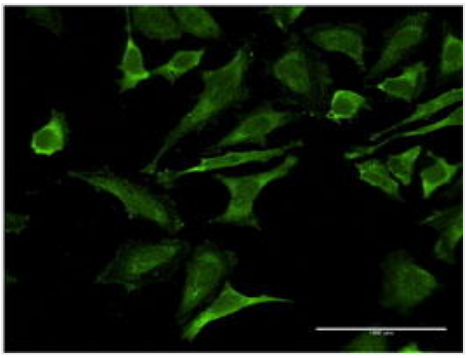
Product Name	OCLN, Monoclonal Antibody
Full Product Name	OCLN (occludin) (AP)
Product Gene Name	anti-OCLN antibody
Product Synonym Names	occludin
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	5A7
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified
Specificity	Recognizes OCLN.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	59kDa
OMIM	251290
3D Structure	ModBase 3D Structure for Q16625
Immunogen	OCLN (NP_002529, 423aa-522aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Conjugate	AP
Product Categories/Family for anti-OCLN antibody	Antibodies; Signal Transduction
Applications Tested/Suitable for anti-OCLN antibody	Western Blot (WB)
Application Notes for anti-OCLN antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-OCLN antibody	This gene encodes an integral membrane protein which is located at tight junctions. This protein may be involved in the formation and maintenance of the tight junction. The possibility of several alternatively spliced products has been suggested but the full nature of these products has not been described. [provided by RefSeq]
Other Notes	Small volumes of anti-OCLN antibody 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	MBS6165387 is an antibody targeting OCLN. Also known as OCLN (occludin) (AP). Host: Mouse.



Testing Data of anti-OCLN antibody
Detection limit for recombinant GST tagged OCLN is approximately 1ng/ml as a capture antibody.



Immunofluorescence (IF) of anti-OCLN antibody
Immunofluorescence of monoclonal antibody to OCLN on HeLa cell. [antibody concentration 10 ug/ml]



Immunofluorescence (IF) of anti-OCLN antibody
Immunofluorescence of monoclonal antibody to OCLN on HeLa cell. [antibody concentration 10 ug/ml]

ADDITIONAL DETAILS

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

NCBI GI #	4505487
NCBI GeneID	100506658
NCBI Accession #	NP_002529
UniProt Primary Accession #	Q16625
UniProt Related Accession #	Q16625
GenBank Nucleotide #	NM_002538
NCBI Official Full Name	occludin isoform a
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.** our findings for the first time identify the role of occludin as a tumor promoter and a prometastatic factor in lung cancer, demonstrating that occludin is a potential prognostic biomarker and therapeutic target in lung cancer
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Online datasheet: https://www.mybiosource.com/monoclonal-antibody/ocln/6165387