CLDN2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CLDN2, Monoclonal Antibody
Full Product Name	CLDN2 (Claudin-2, SP82, PSEC0059, SP82, UNQ705/PRO1356) (MaxLight 490)
Product Gene Name	anti-CLDN2 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	3F1
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CLDN2.
Preparation and Storage	Store product at 4 degree C in the dark. 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. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	24,549 Da
OMIM	300520
3D Structure	ModBase 3D Structure for P57739
Immunogen	Partial recombinant corresponding to aa29-81 from CLDN2 (NP_065117) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	SWKTSSYVGASIVTAVGFSKGLWMECATHSTGITQCDIYSTLLGLPADIQAA
Conjugate	MaxLight490
Product Categories/Family for anti-CLDN2 antibody	Antibodies; Claudin
Applications Tested/Suitable for anti-CLDN2 antibody	FLISA, Western Blot (WB)
Application Notes for anti-CLDN2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CLDN2 antibody	Plays a major role in tight junction-specific obliteration of the intercellular space, through calcium-independent cell-adhesion activity.
Product References and Citations for anti-CLDN2 antibody	1. Proteopolymersomes: in vitro production of a membrane protein in polymersome membranes. Nallani M, Andreasson-Ochsner M, Darren Tan CW, Sinner EK, Wisantoso Y, Geifman-Shochat S, Hunziker W.Biointerphases 6, 153 (2011); doi:10.1116/ 1.3644384 2. Probing Effects of pH change on Dynamic Response of Claudin-2 Mediated Adhesion Using Single Molecule Force Spectroscopy. Lim TS, Vedula SR, Huic S, Kausalya PJ, Hunzikerd W, Lim CT.Exp Cell Res. 2008 Aug 15;314(14):2643-51. Epub 2008 Jun 3.

Other Notes	Small volumes of anti-CLDN2 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 CLDN2 purchase	MBS6200167 is an antibody targeting CLDN2. Also known as CLDN2 (Claudin-2, SP82, PSEC0059, SP82, UNQ705/PRO1356) (MaxLight 490). Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CLDN2. It may not necessarily be applicable to this product.

NCBI GI #	9966781
NCBI GeneID	9075
NCBI Accession #	NP_065117
UniProt Primary Accession #	P57739
UniProt Secondary Accession #	B2R6B9
UniProt Related Accession #	P57739
GenBank Nucleotide #	NM_020384
NCBI Official Full Name	claudin-2
NCBI Official Synonym Full Names	claudin 2
NCBI Official Symbol	CLDN2
UniProt Protein Name	Claudin-2
UniProt Synonym Protein Names	SP82
Protein Family	Claudin
UniProt Gene Name	CLDN2
UniProt Entry Name	CLD2_HUMAN
NCBI Protein Information	claudin-2
NCBI Summary for CLDN2	This gene product belongs to the claudin protein family whose members have been identified as major integral membrane proteins localized exclusively at tight junctions. Claudins are expressed in an organ-specific manner and regulate tissue-specific physiologic properties of tight junctions. This protein is expressed in the intestine. Alternatively spliced transcript variants with different 5' untranslated region have been found for this gene.[provided by RefSeq, Jan 2010]
UniProt Comments for CLDN2	Claudin-2: Plays a major role in tight junction-specific obliteration of the intercellular space, through calcium-independent cell-adhesion activity. Belongs to the claudin family. Protein type: Membrane protein, integral; Membrane protein, multi-pass; Cytoskeletal Chromosomal Location of Human Ortholog: Xq22.3-q23 Cellular Component: tight junction; plasma membrane; integral to membrane Molecular Function: identical protein binding; structural molecule activity Biological Process: calcium-independent cell-cell adhesion
Research Articles on CLDN2	**1.** Claudins 2 and 4 have reciprocal effects on epithelial barrier function, exhibit differential FRAP dynamics, and compete for residency within the tight junction.

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