CLDN1 Antibody

PRODUCT OVERVIEW

Product Name	CLDN1, Antibody
Full Product Name	Biotinylated Anti-CLDN1 (eclutatug biosimilar) mAb
Product Gene Name	anti-CLDN1 antibody
Product Synonym Names	CLD1; SEMP1; ILVASC; TBC
Isotype	IgG1
Species Reactivity	Human
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Preparation and Storage	Store at -20 degree C to -80 degree C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80 degree C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Molecular Weight	22,744 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (190023490..190040235, complement). Location: 3q28-q29
OMIM	603718
3D Structure	ModBase 3D Structure for O95832
Conjugation	Biotinylated
Product Categories/Family for anti-CLDN1 antibody	Biosimilar reference antibodies
Applications Tested/Suitable for anti-CLDN1 antibody	Flow Cytometry (FC/FACS)
Related Product Information for anti-CLDN1 antibody	MBS1881946 is an antibody targeting CLDN1. Also known as Biotinylated Anti-CLDN1 (eclutatug biosimilar) mAb. Reactive in Human.
Other Notes	Small volumes of anti-CLDN1 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CLDN1. It may not necessarily be applicable to this product.

NCBI GI #	10863887
NCBI GeneID	9076
NCBI Accession #	NP_066924.1
UniProt Primary Accession #	O95832
UniProt Related Accession #	O95832
GenBank Nucleotide #	NM_021101.4
NCBI Official Full Name	claudin-1

NCBI Official Synonym Full Names	claudin 1
NCBI Official Symbol	CLDN1
NCBI Official Synonym Symbols	CLD1; SEMP1; ILVASC
UniProt Protein Name	Claudin-1
UniProt Synonym Protein Names	Senescence-associated epithelial membrane protein
Protein Family	Claudin
UniProt Gene Name	CLDN1
UniProt Synonym Gene Names	CLD1; SEMP1
UniProt Entry Name	CLD1_HUMAN
NCBI Protein Information	claudin-1; senescence-associated epithelial membrane protein 1
NCBI Summary for CLDN1	Tight junctions represent one mode of cell-to-cell adhesion in epithelial or endothelial cell sheets, forming continuous seals around cells and serving as a physical barrier to prevent solutes and water from passing freely through the paracellular space. These junctions are comprised of sets of continuous networking strands in the outwardly facing cytoplasmic leaflet, with complementary grooves in the inwardly facing extracytoplasmic leaflet. The protein encoded by this gene, a member of the claudin family, is an integral membrane protein and a component of tight junction strands. Loss of function mutations result in neonatal ichthyosis-sclerosing cholangitis syndrome. [provided by RefSeq, Jul 2008]
UniProt Comments for CLDN1	Claudin-1: Plays a major role in tight junction-specific obliteration of the intercellular space, through calcium-independent cell-adhesion activity. Acts as a co- receptor for HCV entry into hepatic cells. Can form homo- and heteropolymers with other CLDN. Homopolymers interact with CLDN3, but not CLDN2, homopolymers. Directly interacts with TJP1/ZO-1, TJP2/ZO-2 and TJP3/ZO-3. Interacts with MPDZ and INADL. May interact with HCV E1 and E2 proteins. Strongly expressed in liver and kidney. Expressed in heart, brain, spleen, lung and testis. Belongs to the claudin family. Protein type: Membrane protein, integral; Membrane protein, multi-pass; Cytoskeletal Chromosomal Location of Human Ortholog: 3q28-q29 Cellular Component: tight junction; integral to plasma membrane; apical plasma membrane; integral to membrane; lateral plasma membrane Molecular Function: identical protein binding; protein binding; structural molecule activity Biological Process: intercellular junction assembly and maintenance; viral reproduction; cell adhesion; calcium-independent cell-cell adhesion Disease: Ichthyosis, Leukocyte Vacuoles, Alopecia, And Sclerosing Cholangitis
Research Articles on CLDN1	**1.** Keratin 8 and 18 loss in epithelial cancer cells increases collective cell migration and cisplatin sensitivity through claudin1 up-regulation.
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