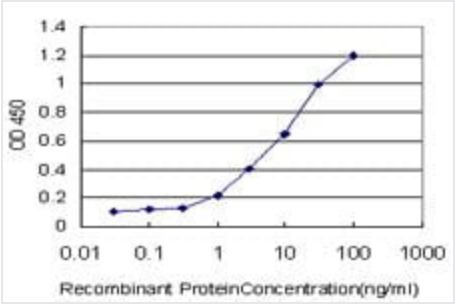
CLDN5 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CLDN5, Monoclonal Antibody
Full Product Name	CLDN5 (Claudin-5, Transmembrane Protein Deleted in VCFS, TMDVCF, AWAL, TMVCF, BEC1, CPETRL1) (Biotin)
Product Gene Name	anti-CLDN5 antibody
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	3D8
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CLDN5.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. 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 after thawing and prior to removing the cap.
Molecular Weight	23kDa
OMIM	602101
3D Structure	ModBase 3D Structure for O00501
Immunogen	Partial recombinant protein corresponding to aa29-81 from human CLDN5 with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MWQVTAFLDHNIVTAQTTWKGLWMSCVVQSTGHMQCKVYDSVLALSTEVQAAR*
Conjugate	Biotin
Product Categories/Family for anti-CLDN5 antibody	Antibodies; Claudin
Applications Tested/Suitable for anti-CLDN5 antibody	ELISA (EIA)
Application Notes for anti-CLDN5 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CLDN5 antibody	Plays a major role in tight junction-specific obliteration of the intercellular space.
Other Notes	Small volumes of anti-CLDN5 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 CLDN5 purchase	MBS6141237 is an antibody targeting CLDN5. Also known as CLDN5 (Claudin-5, Transmembrane Protein Deleted in VCFS, TMDVCF, AWAL, TMVCF, BEC1, CPETRL1) (Biotin). Reactive in Human. Host: Mouse.



Testing Data of anti-CLDN5 antibody
Detection limit for recombinant GST tagged CLDN5 is ~0.1ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CLDN5. It may not necessarily be applicable to this product.

NCBI GI #	195947372
NCBI GeneID	7122
NCBI Accession #	NP_003268
UniProt Primary Accession #	O00501
UniProt Related Accession #	O00501
GenBank Nucleotide #	NM_003277
NCBI Official Full Name	claudin-5 isoform 1
NCBI Official Synonym Full Names	claudin 5
NCBI Official Symbol	CLDN5
NCBI Official Synonym Symbols	AWAL; BEC1; TMVCF; TMDVCF; CPETRL1
UniProt Protein Name	Claudin-5
UniProt Synonym Protein Names	Transmembrane protein deleted in VCFS
Protein Family	Claudin
UniProt Gene Name	CLDN5
UniProt Synonym Gene Names	AWAL; TMVCF; TMDVCF
UniProt Entry Name	CLD5_HUMAN
NCBI Protein Information	claudin-5
NCBI Summary for CLDN5	This gene encodes a member of the claudin family. Claudins are integral membrane proteins and components of tight junction strands. Tight junction strands serve as a physical barrier to prevent solutes and water from passing freely through the paracellular space between epithelial or endothelial cell sheets. Mutations in this gene have been found in patients with velocardiofacial syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, May 2018]

UniProt Comments for CLDN5	Claudin-5: Plays a major role in tight junction-specific obliteration of the intercellular space. Belongs to the claudin family. Protein type: Cytoskeletal; Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 22q11.21 Cellular Component: tight junction; integral to membrane; plasma membrane; intercellular junction Molecular Function: identical protein binding; structural molecule activity Biological Process: calcium-independent cell-cell adhesion
Research Articles on CLDN5	**1.** Epithelial barrier dysfunction in lymphocytic colitis occurs through downregulation of claudin-4, -5, and -8, and redistribution of claudin-5 and -8 off the tight junction, which contributes to diarrhea by a leak-flux mechanism.
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