CLDN8 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CLDN8, Polyclonal Antibody
Full Product Name	CLDN8, ID (CLDN8, Claudin-8) (MaxLight 550)
Product Gene Name	anti-CLDN8 antibody
Product Synonym Names	CLDN8; Claudin-8
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CLDN8.
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: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	24,845 Da
Chromosome Location	Chromosome: 21; NC_000021.8 (31586324..31588469, complement). Location: 21q22.11
OMIM	611231
3D Structure	ModBase 3D Structure for P56748
Immunogen	Synthetic peptide corresponding to a portion of amino acids within aa140-166 from the Center region of human CLDN8, conjugated to KLH.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-CLDN8 antibody	Antibodies; Claudin
Applications Tested/Suitable for anti-CLDN8 antibody	Flow Cytometry (FC/FACS), Western Blot (WB)
Application Notes for anti-CLDN8 antibody	FC/FACS: 1:10-50 WB: 1:1000 Applications are based on unconjugated antibody.
Related Product Information for anti-CLDN8 antibody	MBS6286543 is an antibody targeting CLDN8. Also known as CLDN8, ID (CLDN8, Claudin-8) (MaxLight 550). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-CLDN8 antibody	Kim, S.S., et.al., Histopathology 54 (5), 633-635 (2009). Osunkoya, A.O., et.al, Hum. Pathol. 40 (2), 206-210 (2009).

Other Notes	Small volumes of anti-CLDN8 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 CLDN8. It may not necessarily be applicable to this product.

NCBI GI #	40788011
NCBI GeneID	9073
NCBI Accession #	NP_955360.1
UniProt Primary Accession #	P56748
UniProt Secondary Accession #	Q53EX7; D3DSE3
UniProt Related Accession #	P56748
GenBank Nucleotide #	NM_199328.2
NCBI Official Full Name	claudin-8
NCBI Official Synonym Full Names	claudin 8
NCBI Official Symbol	CLDN8
UniProt Protein Name	Claudin-8
Protein Family	Claudin
UniProt Gene Name	CLDN8
UniProt Entry Name	CLD8_HUMAN
NCBI Protein Information	claudin-8
NCBI Summary for CLDN8	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, and also play critical roles in maintaining cell polarity and signal transductions. This protein plays important roles in the paracellular cation barrier of the distal renal tubule, and in the paracellular barrier to prevent sodium back-leakage in distal colon. Differential expression of this gene has been observed in colorectal carcinoma and renal cell tumors, and along with claudin-7, is an immunohistochemical marker for the differential diagnosis of chromophobe renal cell carcinoma and renal oncocytoma.[provided by RefSeq, May 2010]
UniProt Comments for CLDN8	Claudin-8: Plays a major role in tight junction-specific obliteration of the intercellular space. Belongs to the claudin family. Protein type: Membrane protein, multi-pass; Endoplasmic reticulum; Cell adhesion; Membrane protein, integral Chromosomal Location of Human Ortholog: 21q22.11 Cellular Component: tight junction; endoplasmic reticulum; basolateral plasma membrane; plasma membrane; integral to membrane Molecular Function: identical protein binding; structural molecule activity Biological Process: calcium-independent cell-cell adhesion
Research Articles on CLDN8	**1.** Human Cldn-8 and -14 were shown to convey Clostridium perfringens enterotoxin-mediated cytotoxicity at pathophysiologically relevant concentrations of this toxin, although ~2-to-10-fold less efficiently than Cldn-4.

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