CLDN7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CLDN7, Polyclonal Antibody
Full Product Name	CLDN7 (C-Term) Rabbit pAb
Product Gene Name	anti-CLDN7 antibody
Product Synonym Names	Claudin-7; CLDN-7; CLDN7; CEPTRL2; CPETRL2
Clonality	Polyclonal
Isotype	Ig
Clone Number	RB23672
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied in PBS with 0.09% (W/V) Sodium Azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Affinity Purified
OMIM	609131
3D Structure	ModBase 3D Structure for O95471
Immunogen	This CLDN7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 172-201 amino acids from the C-terminal region of human CLDN7.
Cellular Localization	Cell Junction, Cell Membrane, Membrane, Tight Junction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CLDN7 antibody	Western Blot (WB), Immunohistochemistry (IHC), Flow Cytometry (FC/FACS)
Application Notes for anti-CLDN7 antibody	WB: 1:1000 IHC: 1:50-100 FC/FACS: 1:10-50
Related Product Information for anti-CLDN7 antibody	MBS8551203 is an antibody targeting CLDN7. Also known as CLDN7 (C-Term) Rabbit pAb. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-CLDN7 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 CLDN7. It may not necessarily be applicable to this product.

NCBI GI #	297206811
NCBI GeneID	1366
NCBI Accession #	NP_001171951.1
UniProt Primary Accession #	O95471

UniProt Related Accession #	O95471
GenBank Nucleotide #	NP_001171951.1
NCBI Official Full Name	claudin-7 isoform 1
NCBI Official Synonym Full Names	claudin 7
NCBI Official Symbol	CLDN7
NCBI Official Synonym Symbols	CLDN-7; CEPTRL2; CPETRL2; Hs.84359; claudin-1
UniProt Protein Name	Claudin-7
Protein Family	Claudin
UniProt Gene Name	CLDN7
UniProt Synonym Gene Names	CEPTRL2; CPETRL2; CLDN-7
UniProt Entry Name	CLD7_HUMAN
NCBI Protein Information	claudin-7
NCBI Summary for CLDN7	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. Differential expression of this gene has been observed in different types of malignancies, including breast cancer, ovarian cancer, hepatocellular carcinomas, urinary tumors, prostate cancer, lung cancer, head and neck cancers, thyroid carcinomas, etc.. Alternatively spliced transcript variants encoding different isoforms have been found.[provided by RefSeq, May 2010]
UniProt Comments for CLDN7	Claudin-7: Plays a major role in tight junction-specific obliteration of the intercellular space. Belongs to the claudin family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Cell adhesion; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 17p13.1 Cellular Component: tight junction; basolateral plasma membrane; integral to membrane; lateral plasma membrane Molecular Function: identical protein binding; protein binding; structural molecule activity Biological Process: calcium-independent cell-cell adhesion
Research Articles on CLDN7	**1.** CLDN7 expression is significantly elevated in gastric cancer tissues, and the overexpression of CLDN7 is closely related to lymph node metastasis. CLDN7 executes an oncogenic function, promoting cancer cell proliferation, invasion, and epithelial-mesenchymal transition.
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