# CLDN8 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | CLDN8, Polyclonal Antibody |
| **Full Product Name** | CLDN8 Antibody |
| **Product Gene Name** | anti-CLDN8 antibody |
| **Product Synonym Names** | CLDN8; Claudin-8 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Liquid; In Phosphate Buffered Saline, 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide. |
| **Purity/Purification** | Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Preparation and Storage** | Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze. |
| **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** | Synthesized peptide derived from the Internal region of human Claudin-8. |
| **Immunogen Species** | Human |
| **Conjugate** | Non-conjugated |
| **Product Categories/Family for anti-CLDN8 antibody** | Signal Transduction |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-CLDN8 antibody** | Western Blot (WB), ELISA (EIA) |
| **Application Notes for anti-CLDN8 antibody** | WB: 1:500-1:2000<br>ELISA: 1:5000 |
| **Related Product Information for anti-CLDN8 antibody** | MBS7121210 is an antibody targeting CLDN8. Also known as CLDN8 Antibody. Reactive in Human. Host: Rabbit. |
| **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.

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| **NCBI GI #** | 40788011 |

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| **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.<br><br>Protein type: Membrane protein, multi-pass; Endoplasmic reticulum; Cell adhesion; Membrane protein, integral<br><br>Chromosomal Location of Human Ortholog: 21q22.11<br><br>Cellular Component: tight junction; endoplasmic reticulum; basolateral plasma membrane; plasma membrane; integral to membrane<br><br>Molecular Function: identical protein binding; structural molecule activity<br><br>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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