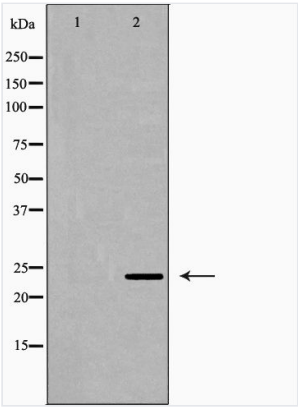
CLDN7 Antibody – Rabbit Polyclonal

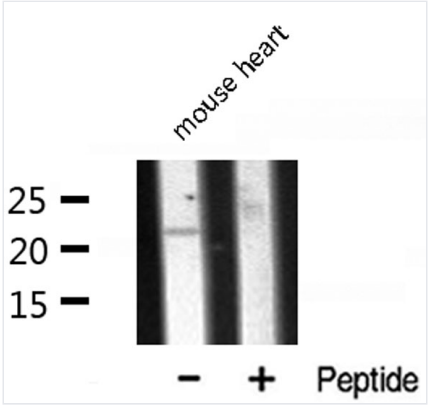
PRODUCT OVERVIEW

Product Name	CLDN7, Polyclonal Antibody
Full Product Name	CLDN7 Antibody
Product Gene Name	anti-CLDN7 antibody
Product Synonym Names	CEPTR L2; CEPTRL 2; CEPTRL2; Claudin 1; Claudin 9; Claudin-7; Claudin1; Claudin7; Claudin9; CLD7_HUMAN; CLDN 7; CLDN-7; CLDN7; Clostridium perfringens enterotoxin receptor like 2; CPETR L2; CPETRL 2; CPETRL2; Hs.84359
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	CLDN7 antibody detects endogenous levels of total CLDN7
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	Claudin 7 peptide (MBS9626141) is used for blocking the activity of Claudin 7 antibody (MBS9607425)
Molecular Weight	Observed: 24 kDa Predicted: 23 kDa
3D Structure	ModBase 3D Structure for O95471
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human CLDN7
Subcellular Location	Cell Membrane. Lateral Cell Membrane. Cell Junction > Tight Junction. Co-localizes with EPCAM at the lateral cell membrane and tight junction.
Tissue Specificity	Expressed in kidney, lung and prostate. Isoform 1 seems to be predominant, except in some normal prostate samples, where isoform 2 is the major form. Down-regulated in breast cancers, including ductal carcinoma in situ (DCIS), lobular carcinoma in situ (LCIS) and invasive ductal carcinoma (IDC) (at protein level), as well as in several cancer cell lines. Loss of expression correlates with histological grade, occurring predominantly in high-grade lesions.
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CLDN7 antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-CLDN7 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200

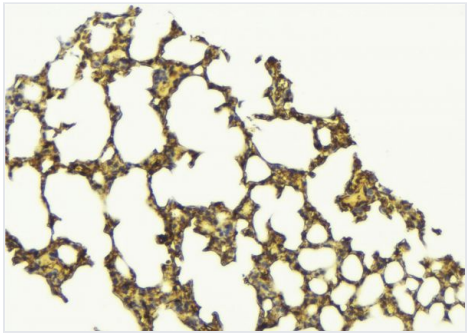
Related Product Information for anti-CLDN7 antibody	Description: This gene encodes a member of the claudin family. Claudins are integral membrane proteins and components of tight junction strands. Tight junction strands serve as a physical barrier to prevent solutes and water from passing freely through 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]. Function: Plays a major role in tight junction-specific obliteration of the intercellular space. Subunit Structure: Directly interacts with TJP1/ZO-1, TJP2/ZO-2 and TJP3/ZO-3 (By similarity). The phosphorylated form interacts with EPCAM (PubMed:16054130). Does not interact with CD81 (PubMed:20375010). Post-translational Modifications: Phosphorylated. Similarity: Belongs to the claudin family.
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.
Searchable Terms for CLDN7 purchase	MBS9607425 is an antibody targeting CLDN7. Also known as CLDN7 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-CLDN7 antibody
Western blot analysis of LoVo cell lysate, using CLDN7 Antibody. The lane on the left is treated with the antigen-specific peptide.



Western Blot (WB) of anti-CLDN7 antibody
Western blot analysis of CLDN7 expression in Mouse Heart lysate



Immunohistochemistry (IHC) of anti-CLDN7 antibody
MBS9607425 at 1/100 staining Mouse lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

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 Secondary Accession #	Q6IPN3; Q7Z4Y7; Q9BVN0; B2R9X7; D3DTP0
UniProt Related Accession #	O95471
GenBank Nucleotide #	NM_001185022.1
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
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	Plays a major role in tight junction-specific obliteration of the intercellular space.
Research Articles on CLDN7	**1.** the present study revealed the distinct expression profiles of claudin5, 7 and 8 in nonneoplastic mucosal tissues and gastric carcinoma tissues. Furthermore, the expression of these claudin proteins was highly associated with metastatic progression and prognosis in patients with gastric carcinoma
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