

CLDN7 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP10180b**Specification**

CLDN7 Antibody (C-term) Blocking peptide - Product Information

Primary Accession [O95471](#)
Other Accession [NP_001171951.1](#), [NP_001298.3](#),
[NP_001171952.1](#)

CLDN7 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 1366

Other Names

Claudin-7, CLDN-7, CLDN7, CEPTRL2, CPETRL2

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CLDN7 Antibody (C-term) Blocking peptide - Protein Information

Name CLDN7

Synonyms CEPTRL2, CPETRL2

Function

Plays a major role in tight junction-specific obliteration of the intercellular space.

Cellular Location

Cell membrane; Multi-pass membrane protein. Basolateral cell membrane. Cell junction, tight junction. Note=Co-localizes with EPCAM at the basolateral cell membrane and tight junction

Tissue Location

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

CLDN7 Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

CLDN7 Antibody (C-term) Blocking peptide - Images

CLDN7 Antibody (C-term) Blocking peptide - Background

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.

CLDN7 Antibody (C-term) Blocking peptide - References

Kojima, F., et al. Oncol. Rep. 23(4):927-931(2010) Rendon-Huerta, E., et al. J Gastrointest Cancer 41(1):52-59(2010) Ouban, A., et al. Histol. Histopathol. 25(1):83-90(2010) Kaarteenaho, R., et al. Respir. Res. 11, 59 (2010) : Lal-Nag, M., et al. Genome Biol. 10 (8), 235 (2009) :