Recombinant Human CLDN7

Cat. No. CLDN7-27069TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human Claudin 7 (amino acids 31-81) with proprietary tag, predicted MW 31.24kDa.
Species	Human
Source	Wheat Germ
ProteinLength	51 amino acids
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.
Molecular Weight	31.240kDa inclusive of tags
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 (L

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Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.31% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	QMSSYAGDNIITAQAMYKGLWMDCVTQSTGMMSCKMYDSVLALSAALQATR
Sequence Similarities	Belongs to the claudin family.

GENE INFORMATION

Gene Name	CLDN7 claudin 7 [Homo sapiens]
Official Symbol	CLDN7
Synonyms	CLDN7; claudin 7; CEPTRL2, CPETRL2; claudin-7; Hs.84359;
Gene ID	1366
mRNA Refseq	NM_001185022
Protein Refseq	NP_001171951
MIM	609131
Uniprot ID	O95471

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Chromosome Location	17
Pathway	Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Cell junction organization, organism-specific biosystem; Cell-Cell communication, organism-specific biosystem; Cell-cell junction organization, organism-specific biosystem;
Function	identical protein binding; protein binding; structural molecule activity;

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