

Product datasheet for **TP304466**

Claudin 1 (CLDN1) (NM_021101) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human claudin 1 (CLDN1), 20 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone
or AA Sequence: >RC204466 protein sequence
Red=Cloning site **Green**=Tags(s)

MANAGLQLLGFILAF LGWIGAIVSTALPQWRIYSYAGDNIVTAQAMYEGLWMSCVSQSTGQIQCKVFDSL
LNLSSSTLQATRALMVVGILLGVIAIFVATVGMKCMKCLEDEDEVQKMRMAVIGGAIFLLAGLAILVATAWY
GNRIVQEFYDPMTPVNARYEFGQALFTGWAAASLCLLGGALLCCSCPRKTTSYPTPRYPKAPSSGKDY
V

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 22.6 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_066924](#)

Locus ID: 9076

UniProt ID: [O95832](#), [A5JSJ9](#)



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RefSeq Size: 3452

Cytogenetics: 3q28

RefSeq ORF: 633

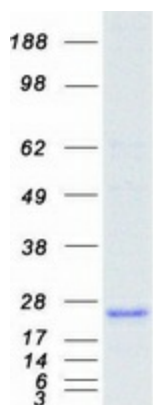
Synonyms: CLD1; ILVASC; SEMP1

Summary: Tight junctions represent one mode of cell-to-cell adhesion in epithelial or endothelial cell sheets, forming continuous seals around cells and serving as a physical barrier to prevent solutes and water from passing freely through the paracellular space. These junctions are comprised of sets of continuous networking strands in the outwardly facing cytoplasmic leaflet, with complementary grooves in the inwardly facing extracytoplasmic leaflet. The protein encoded by this gene, a member of the claudin family, is an integral membrane protein and a component of tight junction strands. Loss of function mutations result in neonatal ichthyosis-sclerosing cholangitis syndrome. [provided by RefSeq, Jul 2008]

Protein Families: Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Pathogenic Escherichia coli infection, Tight junction

Product images:



Coomassie blue staining of purified CLDN1 protein (Cat# TP304466). The protein was produced from HEK293T cells transfected with CLDN1 cDNA clone (Cat# [RC204466]) using MegaTran 2.0 (Cat# [TT210002]).