

Product datasheet for PH304466

Claudin 1 (CLDN1) (NM_021101) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CLDN1 MS Standard C13 and N15-labeled recombinant protein (NP_066924)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204466
Predicted MW:	22.7 kDa
Protein Sequence:	>RC204466 protein sequence Red=Cloning site Green=Tags(s) MANAGLQLLGFILAFILGWIGAIIVSTALPQWRIYSYAGDNIVTAQAMYEGLWMSCVSQSTGQIQCKVFDSL LNLSSTLQATRALMVVGILLGVIAIFVATVGMKCMKCLEDEEVQKMRMAVIGGAIFFLAGLAILVATAWY GNRIVQEFYDPMTPVNARYEFGQALFTGWAAASLCLLGGALLCCSCPRKTTSYPTPRYPYPKAPSSGKDY V TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_066924
RefSeq Size:	3452
RefSeq ORF:	633
Synonyms:	CLD1; ILVASC; SEMP1
Locus ID:	9076
UniProt ID:	O95832 , A5JSJ9



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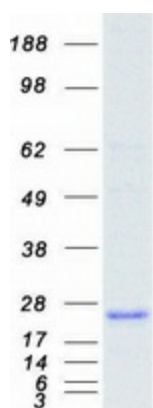
Cytogenetics: 3q28

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]).