

# Human Claudin 1 Protein-Nanodisc

Cat. No. CLD1-HM1N184



## Description

|                  |                                                                                                                                                                                          |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source           | Recombinant Human Claudin 1 Protein-Nanodisc is expressed from HEK293 with His tag at the N-terminus (FITC-equivalent protein is fused on cytoplasmic part).<br>It contains Met1-Val211. |
| Accession        | O95832                                                                                                                                                                                   |
| Molecular Weight | The protein has a predicted MW of 48.5 kDa.                                                                                                                                              |
| Endotoxin        | Less than 1EU per µg by the LAL method.                                                                                                                                                  |

## Formulation and Storage

|             |                                                                                                                                                                                 |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Formulation | Supplied as 0.22 µm filtered solution in PBS (pH 7.4). Notice: Not recommended for flow cytometry in mammalian cells.                                                           |
| Storage     | Valid for 6 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## Background

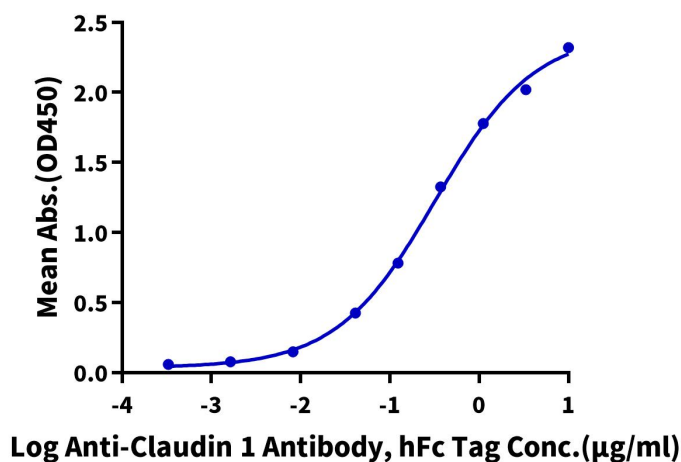
Claudin-1 (CLDN1), a major component of tight junction complexes in the epithelium, maintains cellular polarity, and plays a critical role in cell-to-cell communication as well as epithelial cell homeostasis. Moreover, CLDN1 expression is up-regulated in several cancers, and the level of CLDN1 expression has been proposed as a prognostic marker of patient survival.

## Assay Data

### ELISA Data

#### Human Claudin 1 Nanodisc, His Tag ELISA

0.5µg Human Claudin 1 Nanodisc, His Tag Per Well



Immobilized Human Claudin 1 Nanodisc, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Anti-Claudin 1 Antibody, hFc Tag with the EC50 of 0.32µg/ml determined by ELISA (QC Test).