

Biotinylated Human Claudin 4 Protein-Nanodisc

Cat. No. CLD-HM14NB

Description

Source	Recombinant Biotinylated Human Claudin 4 Protein-Nanodisc is expressed from HEK293 with His tag at the C-terminus. It contains Met1-Val209.
Accession	O14493
Molecular Weight	The protein has a predicted MW of 35.0 kDa.
Endotoxin	Less than 1 EU 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 12 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

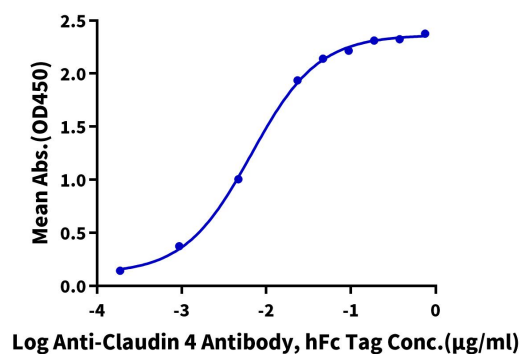
Claudin-4 (CLDN4) is a key component of tight junctions (TJs) in epithelial cells. CLDN4 is overexpressed in many epithelial malignancies and correlates with cancer progression. Changes in CLDN4 expression have been associated with epigenetic factors (such as hypomethylation of promoter DNA), inflammation associated with infection and cytokines, and growth factor signaling. CLDN4 helps to maintain the tumor microenvironment by forming TJs and acts as a barrier to the entry of anticancer drugs into tumors.

Assay Data

ELISA Data

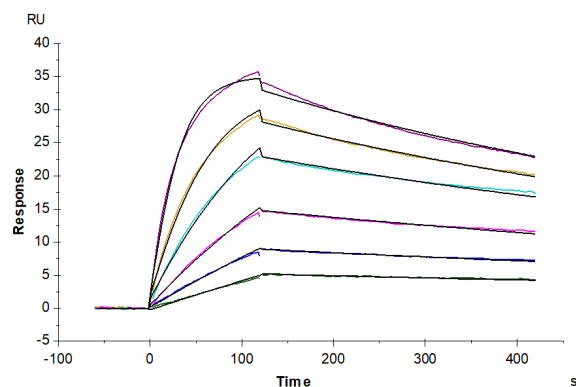
Biotinylated Human Claudin 4 Nanodisc, His Tag ELISA

0.5 μg Biotinylated Human Claudin 4 Nanodisc, His Tag Per Well



Immobilized Biotinylated Human Claudin 4 Nanodisc, His Tag at 5 $\mu\text{g}/\text{ml}$ (100 $\mu\text{l}/\text{well}$) on the streptavidin precoated plate (5 $\mu\text{g}/\text{ml}$). Dose response curve for Anti-Claudin 4 Antibody, hFc Tag with the EC₅₀ of 6.6ng/ml determined by ELISA (QC Test).

SPR Data



Biotinylated Human Claudin 4 Nanodisc, His Tag captured on CM5 Chip via Streptavidin can bind Anti-Claudin 4 Antibody, hFc Tag with an affinity constant of 6.145 nM as determined in SPR assay (Biacore T200).