

PRODUCT INFORMATION

Tag	C-Flag Tag
Expression Host	HEK293
Target	CLDN5
Synonyms	AWAL; BEC1; CPETRL1; TMDVCF; TMVCF
Description	Human CLDN5 full length protein-synthetic nanodisc
Uniprot ID	O00501
Protein Families	Transmembrane
Protein Pathways	Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Tight junction
Molecular Weight	The human full length CLDN5 protein has a MW of 23.1 kDa
Delivery	In Stock
Formulation & Reconstitution	Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions. Do not use solvents with a pH below 6.5 or those containing high concentrations of divalent metal ions (greater than 5 mM) in subsequent experiments.
Sterility	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
Storage&Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C(Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background	This protein is 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. Mutations in this gene have been found in patients with velocardiofacial syndrome.
Usage	Research use only
Conjugate	Unconjugated



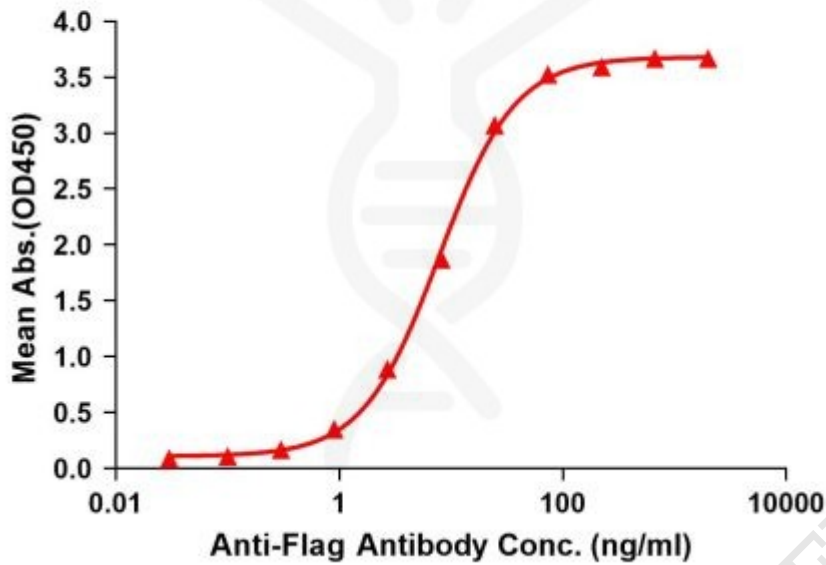
ELISA assay to evaluate CLDN5-Nanodisc
0.2 μ g Human CLDN5-Nanodisc per well

Figure1. Elisa plates were pre-coated with Flag Tag CLDN5-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with CLDN5-Nanodisc is 7.814ng/ml.



Figure2. Human CLDN5-Nanodisc, Flag Tag on SDS-PAGE

