PRODUCT INFORMATION

Tag	C-Single Strep&His Tag
Expression Host	E.coli
Target	CLDN9
Description	Human CLDN9 cell-free full length protein-Nanodisc
Synonyms	DFNB116
Uniprot ID	O95484
Protein Families	Transmembrane
Protein Pathways	Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Tight junction
Molecular Weight	The human CLDN9 cell-free full length protein-Nanodisc has a MW of 25.1kDa
Delivery	1 week
Formulation & Reconstitution	Liquid, 20mM HEPES, 150mM NaCl, pH7.5
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 -80℃, Ship on dry ice.
Purity	>85%
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, and also play critical roles in maintaining cell polarity and signal transductions. This protein is one of the entry cofactors for hepatitis C virus. Mouse studies revealed that this gene is required for the preservation of sensory cells in the hearing organ and the gene deficiency is associated with deafness.
Usage	Research use only
Conjugate	Unconjugated

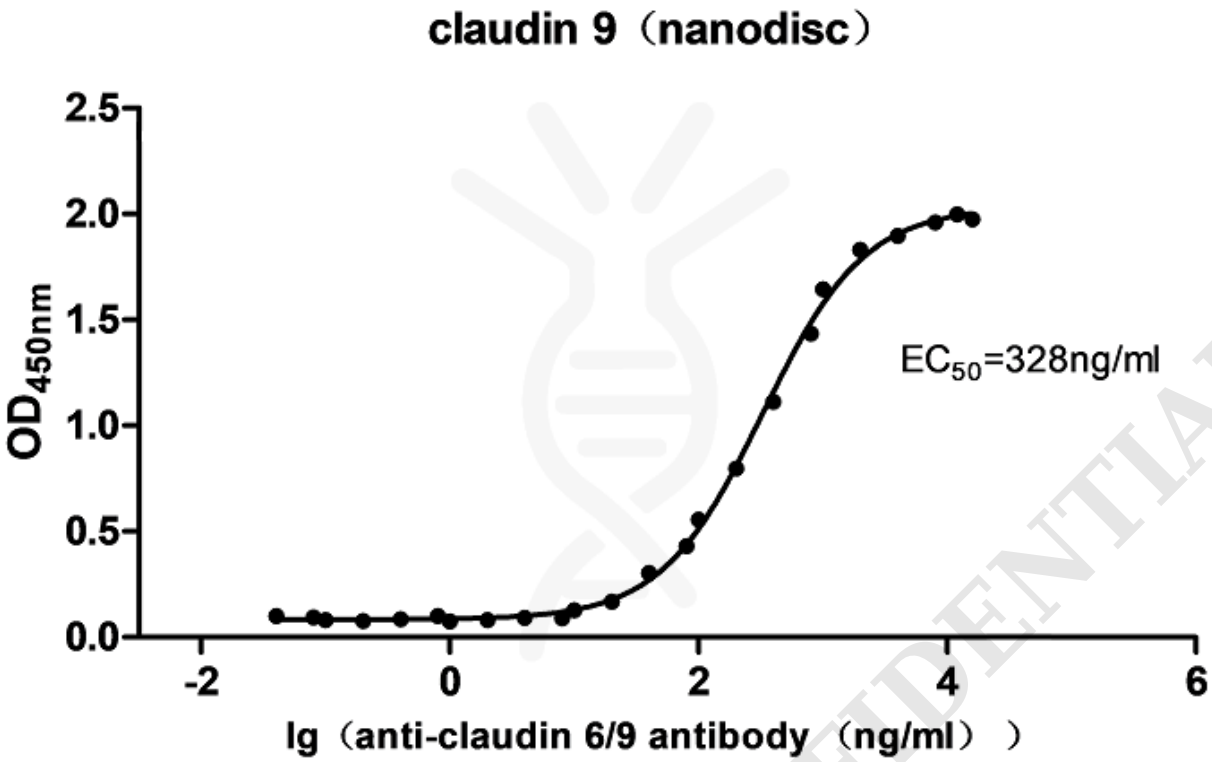

Figure 1. Elisa plates were pre-coated with C-Single Strep&His Tag CLDN9 cell-free-Nanodisc (0.5μg/per well). Serial diluted anti-CLDN9 antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-CLDN9 antibody binding with CLDN9 cell-free-Nanodisc is 328 ng/mL.

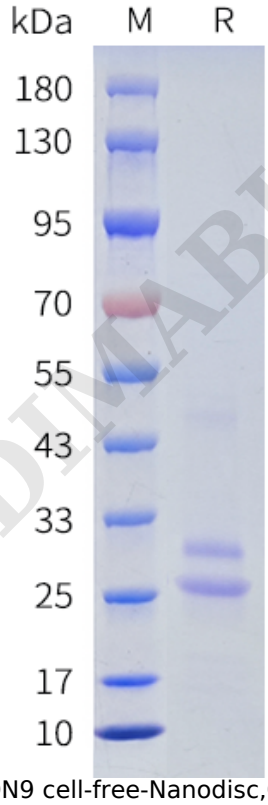

Figure 2. Human CLDN9 cell-free-Nanodisc,C-Single Strep&His Tag on SDS-PAGE.