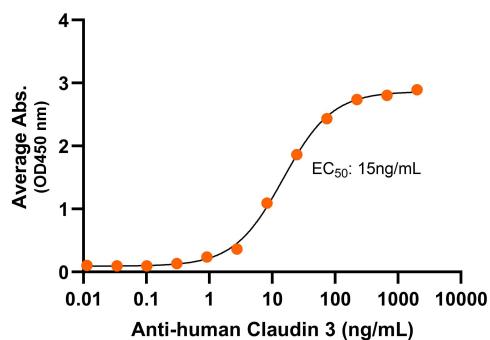


## Bioactivity – Antibody Binding

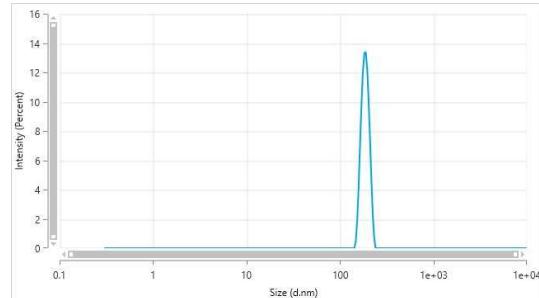
### Human Claudin 3, ELISA

0.5 $\mu$ g of Claudin 3 per well



Immobilized human Claudin 3 VLP (Cat. No. CMP-24008) at 5  $\mu$ g/mL (100  $\mu$ L/well) can bind monoclonal anti-human Claudin 3 antibody with a half maximal effective concentration (EC50) range of 9.2 - 36.7 ng/mL (QC tested).

## DLS



The mean peak diameter (nm) of the CMP is 186.5 with a range of 169.4-200.3 with more than 95% intensity as determined by dynamic light scattering (DLS).



## Human Claudin 3 Full Length Protein, Displayed on Virus-Like Particles (VLPs)

Product Code: CMP-24008  
For Research Use Only (RUO)

**Expression Host**  
HEK293T

**Alternate Name(s)**  
Claudin-3, CLDN3

**Protein Construct**

Claudin 3 protein contains 220 amino acids (Met1 - Val220; UniProt# P15551), and is displayed on Virus-Like Particles (VLPs), that mimics the native protein conformation on the cell surface. Expressed in HEK293T cell line.

**Shipping Conditions**  
Frozen Dry Ice

**Protein Name**  
Claudin 3

**Amino Acid Range**

**Formulation**  
0.45µm filtered PBS, pH 7.4

**Stability & Storage**  
-80°C

### Background

Claudin 3, also known as Claudin-3 and CLDN3, is an integral membrane protein with 4 transmembrane domains, two extracellular loops, one intracellular loop, and both N-terminus and C-terminus ends towards the cytosol. Human Claudin 3 is a member of the Claudin protein family, involved with tight junctions and cell-to-cell adhesion. Claudin 3 is expressed on intestinal epithelia cells, and associated with Williams-Beuren Syndrome and Cholesteatoma.