

# Active Recombinant Full Length Human CLDN18 Protein

**Cat. No.** CLDN18-33H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Claudin 18.2 full length protein (amino acids Met1-Val261; UniProt# P56856-2), displayed on nanoparticles mimics the native protein conformation on the cell surface.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | HEK293T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | 1-261 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | Claudin 18.2, also known as CLDN18.2, is an integral membrane protein with 4 transmembrane domains, two extracellular loops, two intracellular loops, both N-terminus and C-terminus ends towards the cytosol. Human Claudin 18 is a member of Claudin protein family and involved in tight junction and cell-to-cell adhesion. Claudin 18.2 is not expressed in any healthy tissues with the exception of gastric mucosa. It is highly and widely expressed on various tumor cells including gastric cancer and pancreatic cancer. Claudin 18.2 plays critical role in cancer initiation and progression, and is a promising target for cancer therapeutics. |
| <b>Application</b>      | Verified Applications: ELISA and Western blot for Claudin 18.2-specific antibody binding assays. Suggested Applications: ELISA for Claudin 18.2-specific antibody binding assays; animal immunization, RUO.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage</b>          | Store at -80 centigrade.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Storage Buffer</b>   | 0.22µm filtered PBS, pH 7.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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**Shipping**

Frozen Dry Ice

**GENE INFORMATION**
**Gene Name**

CLDN18 claudin 18 [ Homo sapiens (human) ]

**Official Symbol**

CLDN18

**Synonyms**

CLDN18; claudin 18; SFTA5; SFTPJ; claudin-18; surfactant associated 5; surfactant associated protein J; surfactant, pulmonary associated protein J

**Gene ID**

51208

**mRNA Refseq**

NM\_016369

**Protein Refseq**

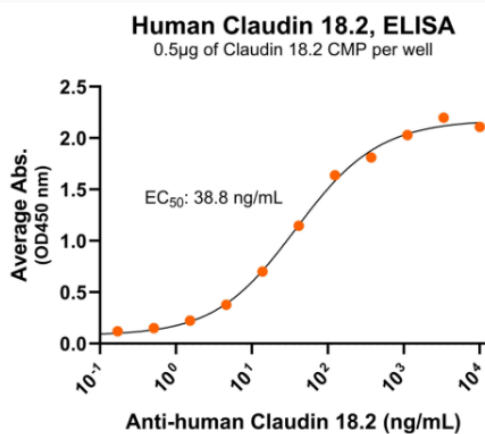
NP\_057453

**MIM**

609210

**UniProt ID**

P56856

**Bioactivity-Antibody Binding**


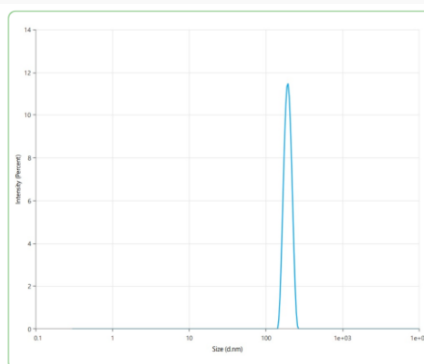
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Immobilized human Claudin 18.2 VLP at 5 µg/mL (100 µL/well) can bind monoclonal anti-human Claudin 18.2 antibody with half maximal effective concentration (EC50) range of 19.4-77.6 ng/mL (QC tested).

### Dynamic Light Scattering



The mean peak diameter (nm) of the CMP is 194.4 with a range of 184.4-204.4 with more than 95% intensity as determined by dynamic light scattering (DLS).

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