

Active Recombinant Full Length Human CLDN18 Protein

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	HEK293T
ProteinLength	1-261 aa
Description	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.
Application	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.
Storage	Store at -80 centigrade.
Storage Buffer	0.22µm filtered PBS, pH 7.4

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 45-1 Ramsey Road, Shirley, NY 11967, USA

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

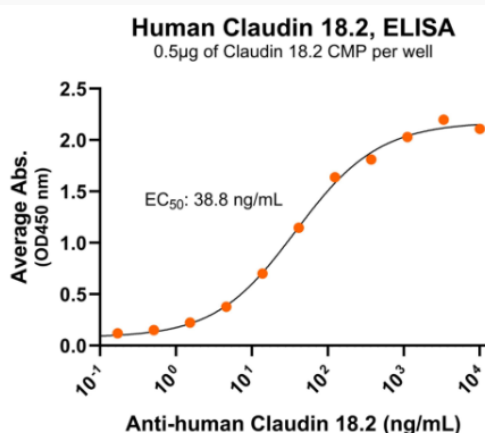
NP_057453

MIM

609210

UniProt ID

P56856

Bioactivity-Antibody Binding


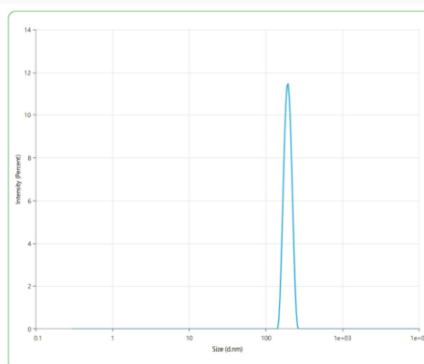
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Immobilized human Claudin 18.2 VLP at 5 µg/mL (100 µL/well) can bind monoclonal anti-human Claudin 18.2 antibody with half maximal effective concentration (EC50) range of 19.4-77.6 ng/mL (QC tested).

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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