

# Active Recombinant Full Length Human Claudin 6 Nanoparticles

**Cat. No.** CLDN6-08HFL    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>        | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>         | HEK293T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>  | 1-220 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>    | Claudin 6, also known as CLDN6, 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 6 is a member of Claudin protein family and involved in tight junction and cell-to-cell adhesion. It is highly and widely expressed on various tumor cells, and play critical role in cancer initiation and progression, and a promising target for cancer therapeutics. |
| <b>Applications</b>   | ELISA for Claudin-6 specific antibody binding assays; animal immunization, RUO                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage</b>        | Store at -80 centigrade.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage Buffer</b> | 0.2 µm filtered PBS, pH 7.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Shipping</b>       | Frozen Dry Ice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## GENE INFORMATION

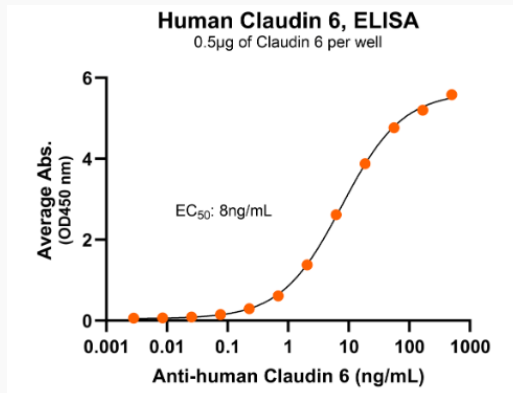
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|                        |                                          |
|------------------------|------------------------------------------|
| <b>Gene Name</b>       | CLDN6 claudin 6 [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | CLDN6                                    |
| <b>Synonyms</b>        | CLDN6; claudin 6; claudin-6; skullin     |
| <b>Gene ID</b>         | 9074                                     |
| <b>mRNA Refseq</b>     | NM_021195                                |
| <b>Protein Refseq</b>  | NP_067018                                |
| <b>MIM</b>             | 615798                                   |
| <b>UniProt ID</b>      | P56747                                   |

#### Bioactivity-Antibody Binding



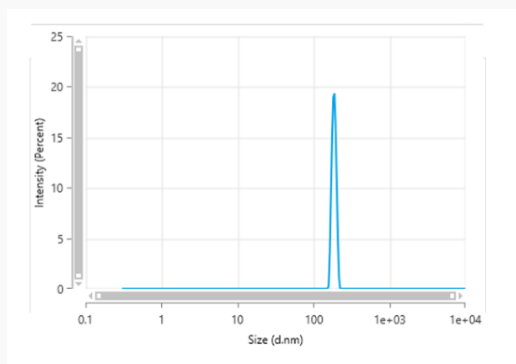
Immobilized human Claudin 6 VLP at 5 µg/mL (100 µL/well) can bind monoclonal anti-human Claudin 6 antibody with half maximal effective concentration (EC<sub>50</sub>) range of 6.6-26.3 ng/mL (QC tested).

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## Dynamic Light Scattering



The mean peak diameter (nm) of the CMP is 177.6 with a range of 162.9-196.6 with more than 95% intensity as determined by dynamic light scattering (DLS).

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