Active Recombinant Full Length Human CLDN4 Protein

Cat. No. CLDN4-30H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Claudin 4 protein contains 209 amino acids (Met1-Val209; UniProt# NP_001296.1), and is displayed on nanoparticles that mimics the native protein conformation on the cell surface.
Species	Human
Source	HEK293T
ProteinLength	1-209 aa
Description	Claudin 4, also known as CLDN4, 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 4 is a component of tight junction strands and may play a role in internal organ development and function during pre- and postnatal life. Claudin 4 can also be used as a marker for distinguishing malignant mesothelioma from lung cancer and uterine serous carcinoma. As a pancreatic cancer marker in cell-blocks of effusion specimens, it has also been found to have a superior performance to BerEp4 staining.
Application	Verified Applications: ELISA and Western blot for Claudin 4-specific antibody binding assays. Suggested Applications: ELISA for Claudin 4-specific antibody binding assays; animal immunization, RUO.
Storage	Store at -80 centigrade.

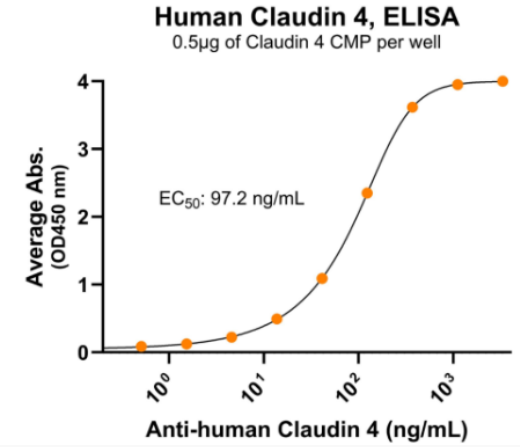
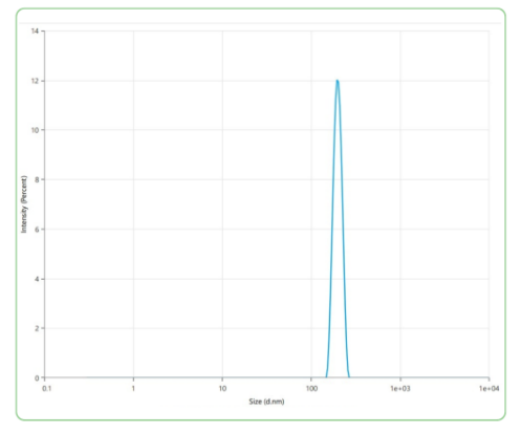
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Storage Buffer	0.22μm filtered PBS, pH 7.4
Shipping	Frozen Dry Ice

GENE INFORMATION

Gene Name	CLDN4 claudin 4 [Homo sapiens (human)]
Official Symbol	CLDN4
Synonyms	CLDN4; claudin 4; CPETR, CPETR1; claudin-4; Clostridium perfringens enterotoxin receptor 1; CPE R; hCPE R; WBSCR8; Williams Beuren syndrome chromosomal region 8 protein; CPE-receptor; Williams-Beuren syndrome chromosomal region 8 protein; CPER; CPE-R; CPETR; CPETR1; hCPE-R;
Gene ID	1364
mRNA Refseq	NM_001305
Protein Refseq	NP_001296
MIM	602909
UniProt ID	O14493

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Bioactivity-Antibody Binding	 Immobilized human Claudin 4 VLP at 5 μg/mL (100 μL/well) can bind monoclonal anti-human Claudin 4 antibody with half maximal effective concentration (EC50) range of 48.6-194.4 ng/mL (QC tested).
Dynamic Light Scattering	 The mean peak diameter (nm) of the CMP is 199.2 with a range of 189.2-209.2 with more than 95% intensity as determined by dynamic light scattering (DLS).

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