PRODUCT INFORMATION

Target	CLDN6
Synonyms	Claudin 6; Claudin-6; Skullin;Claudin6
Description	Human Claudin-6 full length protein membrane nanoparticles (MNPs)
Delivery	In Stock
Uniprot ID	P56747
Expression Host	HEK293
Protein Families	Transmembrane
Protein Pathways	Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Tight junction
Molecular Weight	The human full length CLDN6 Protein has a MW of 23 kDa
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Storage&Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background	Tight junctions represent one mode of cell-to-cell adhesion in epithelial or endothelial cell sheets, forming continuous seals around cells and serving as a physical barrier to prevent solutes and water from passing freely through the paracellular space. These junctions are comprised of sets of continuous networking strands in the outwardly facing cytoplasmic leaflet, with complementary grooves in the inwardly facing extracytoplasmic leaflet. This gene encodes a component of tight junction strands, which is a member of the claudin family. The protein is an integral membrane protein and is one of the entry cofactors for hepatitis C virus. The gene methylation may be involved in esophageal tumorigenesis. This gene is adjacent to another family member CLDN9 on chromosome 16.
Usage	Research use only
Conjugate	Unconjugated

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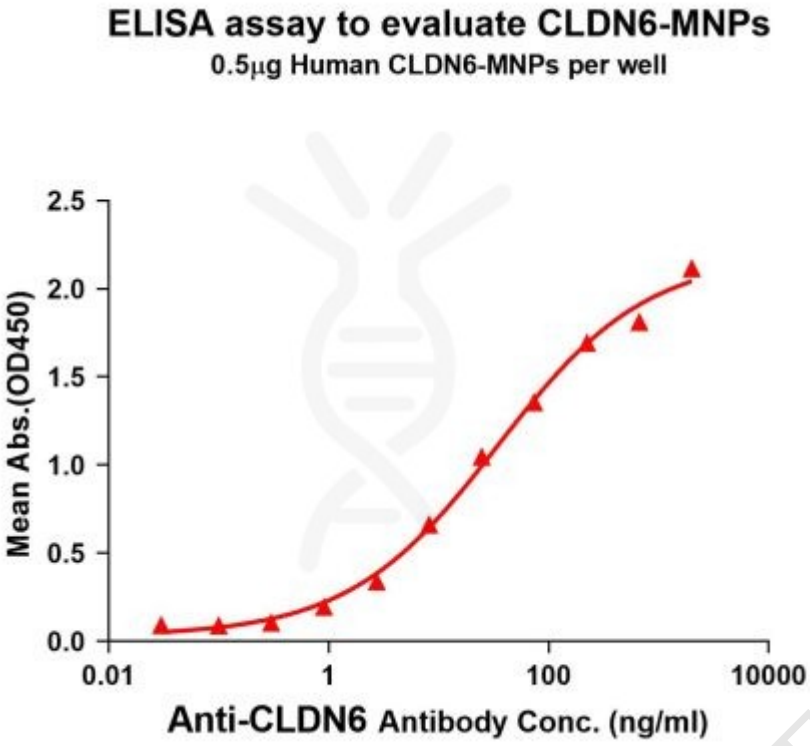


Figure1. Elisa plates were pre-coated with 0.5μg/per well purified human CLDN6 full length membrane nanoparticles. Serial diluted anti-CLDN6 monoclonal antibody (BME100082) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-CLDN6 monoclonal antibody binding with CLDN6 full length membrane nanoparticles is 34.36ng/ml.

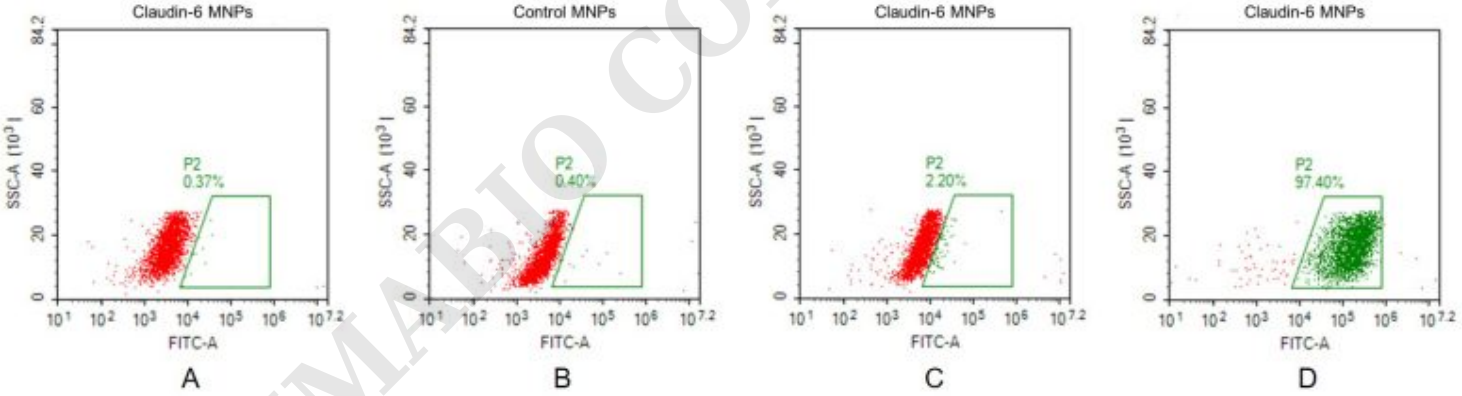


Figure2. FACS analysis of CLDN6 MNPs
A. Negative Control 1: CLDN6 full length membrane nanoparticles samples were stained only with Goat anti-human IgG 488 secondary antibody.
B. Negative Control 2: Control membrane nanoparticles samples were stained with anti-CLDN6 antibody (BME100082) at 2μg/mL, followed by Goat anti-human IgG 488 secondary antibody.
C. Negative Control 3: CLDN6 full length membrane nanoparticles samples were stained with anti-GPRC5D antibody (an irrelevant antibody) at 2μg/mL, followed by Goat anti-human IgG 488 secondary antibody.
D. CLDN6 full length membrane nanoparticles samples were stained with anti-CLDN6 antibody (BME100082) at 2μg/mL, followed by Goat anti-human IgG 488 secondary antibody.

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