

**PRODUCT INFORMATION**

<b>Target</b>	CLDN18.2
<b>Synonyms</b>	Claudin 18.2
<b>Description</b>	Fluorescent Human CLDN18.2 Full Length Protein-VLP (EGFP)
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	P56856
<b>Expression Host</b>	HEK293
<b>Protein Families</b>	Transmembrane
<b>Protein Pathways</b>	Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Tight junction
<b>Molecular Weight</b>	The human full length CLDN18.2 fusion protein has a MW of 54.2 kDa
<b>Formulation &amp; Reconstitution</b>	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.
<b>Storage &amp; Shipping</b>	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.
<b>Background</b>	The protein encodes a member of the claudin family. Claudins are integral membrane proteins and components of tight junction strands. Tight junction strands serve as a physical barrier to prevent solutes and water from passing freely through the paracellular space between epithelial or endothelial cell sheets, and also play critical roles in maintaining cell polarity and signal transductions. This gene is upregulated in patients with ulcerative colitis and highly overexpressed in infiltrating ductal adenocarcinomas. PKC/MAPK/AP-1 (protein kinase C/mitogen-activated protein kinase/activator protein-1) dependent pathway regulates the expression of this gene in gastric cells. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jun 2010]
<b>Usage</b>	Research use only
<b>Conjugate</b>	Fluorescent



**ELISA assay to evaluate CLDN18.2-EGFP-VLP**  
0.5µg Human CLDN18.2-EGFP-VLP per well

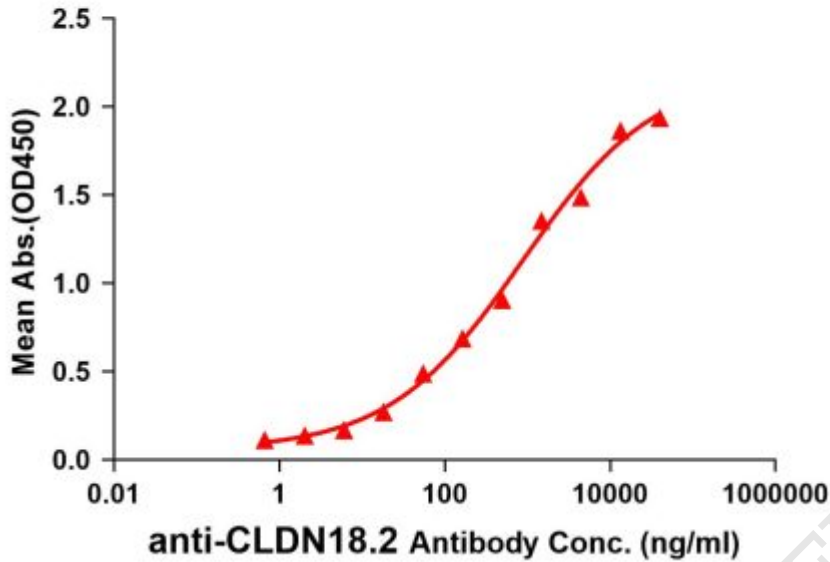


Figure1. ELISA plates were pre-coated with 0.5µg/per well purified human CLDN18.2-EGFP-VLP. Serial diluted Anti-CLDN18.2 monoclonal antibody (BME100075) solutions were added, washed, and incubated with secondary antibody before ELISA reading. From above data, the EC50 for anti- CLDN18.2 monoclonal antibody binding with CLDN18.2-EGFP-VLP is 877.5ng/ml.

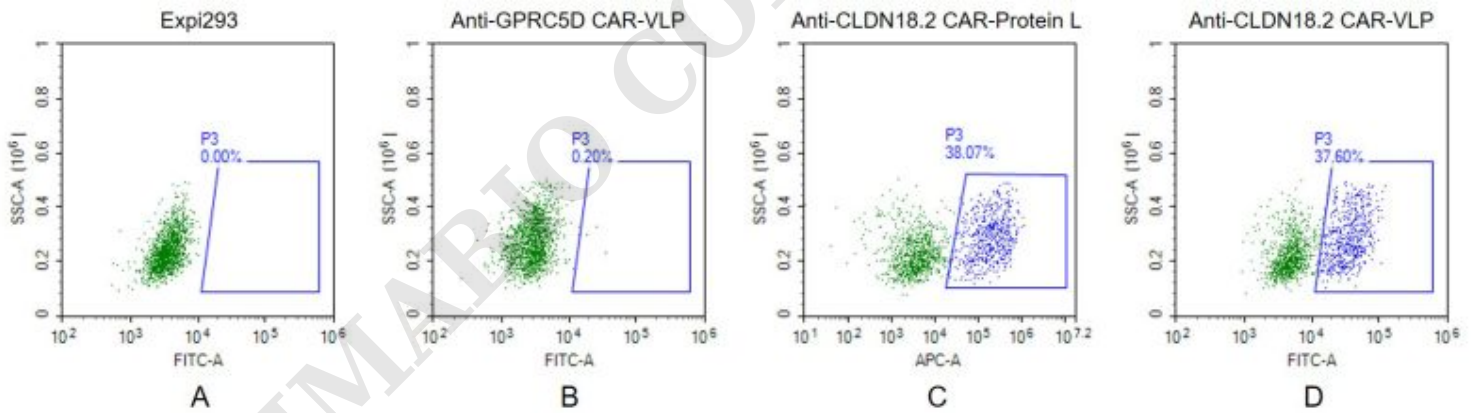


Figure2. FACS analysis of CLDN18.2 VLP A. Negative Control 1: Expi293 cells were stained with Fluorescent Human CLDN18.2 Full Length Protein-VLP (EGFP).  
B. Negative Control 2: Anti-GPRC5D-CAR-Expi293 cells (an irrelevant CAR) were stained with Fluorescent Human CLDN18.2 Full Length Protein-VLP (EGFP).  
C. Positive Control: Anti-CLDN18.2-CAR-Expi293 cells were stained with biotin labeled Protein L, followed by streptavidin-APC antibody.  
D. Anti-CLDN18.2-CAR-Expi293 cells were stained with Fluorescent Human CLDN18.2 Full Length Protein-VLP (EGFP).

