

HUMAN CLDN18.2 FULL LENGTH PROTEIN

Cat.#: 12238

Product Name: Human CLDN18.2 Full Length Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: Claudin 18.2

Target: CLDN18.2

UNIPROT ID: P56856

Description: Human Full length Claudin 18.2 Protein-VLP

Background: 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]

Species/Host: HEK293

Molecular Weight: The Human CLDN18.2 Protein has a predicted MW of 29 kDa. Due to PTM, the actual MW on SDS-PAGE gel is around 50kDa.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

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.

ELISA assay to evaluate CLDN18.2 VLP

0.5µg Human CLDN18.2 VLP per well

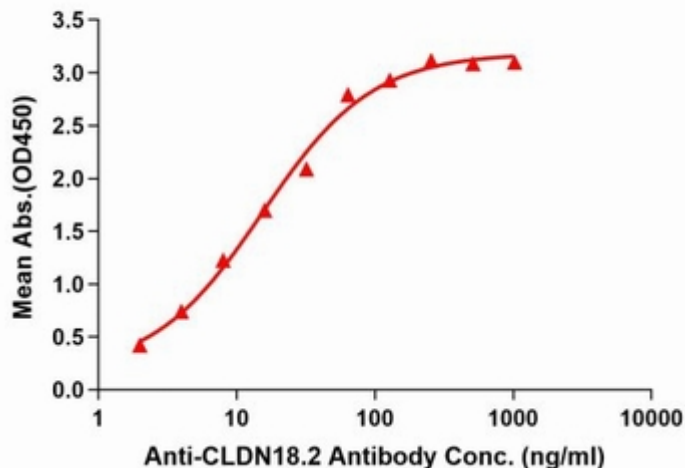


Figure1. ELISA plates were pre-coated with 0.5µg/per well purified human CLDN18.2 VLP. Serial diluted Anti-CLDN18.2 monoclonal antibody (Zolbetuximab biosimilar; IMAB362) solutions were added, washed, and incubated with secondary antibody before ELISA reading. From above data, the EC50 for IMAB362 binding with CLDN18.2 VLP is 15.37ng/ml.