



Synonym

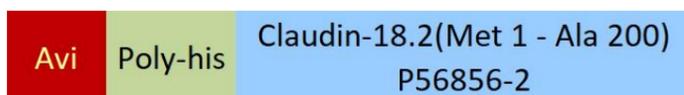
Claudin-18.2,CLDN18,Claudin-18

Source

Biotinylated Human / Cynomolgus Claudin-18.2, His,Avitag (CL2-H82E3) is expressed from Baculovirus-Insect cells. It contains AA Met 1 - Ala 200 (Accession # [P56856-2](#)). In the region AA Met 1 - Ala 200, the AA sequence of Human and Cynomolgus Claudin-18.2 are homologous.

Predicted N-terminus: Met

Molecular Characterization



This protein carries an Avi tag at the N-terminus, followed by a polyhistidine tag. The protein has a calculated MW of 24.8 kDa.

It is produced as active membrane protein with full ECD epitopes, and contains both the ECL1 and ECL2.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

**The DDM/CHS buffer (Cat. No. [DC-11](#)) is sold separately and not included in protein, you can follow [this link](#) for product information.

Purity

>60% as determined by SDS-PAGE.

Formulation

This product is not suitable for cell based experiments due to cytotoxicity of DDM.

DDM and CHS are INDISPENSABLE to keep membrane protein soluble and active, under no circumstance should you remove DDM and CHS.

DDM/CHS buffer (DC-11) is sold separately and not included in protein, and please contact us if you need the buffer.

If glycerol is not compatible to your application, remove glycerol just before immediate experiment, and NEVER store glycerol-free protein solution.

Supplied as 0.2 µm filtered solution in 50 mM HEPES, 150 mM NaCl, DDM, CHS, pH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

Shipping

This product is supplied and shipped with dry ice, please inquire the shipping cost.

Storage

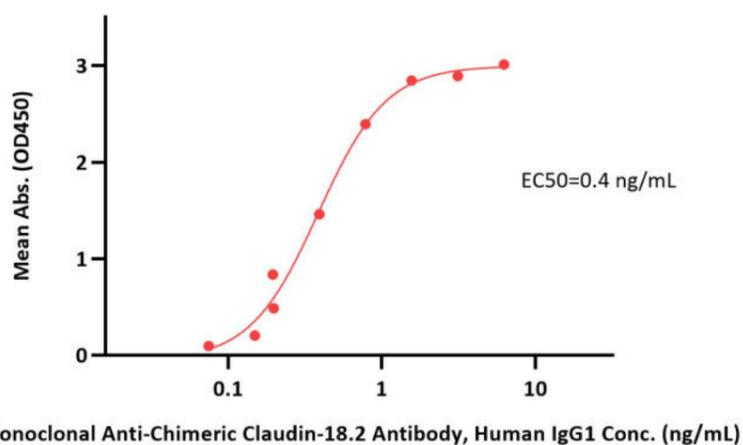
Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

Bioactivity-ELISA

Biotinylated Human / Cynomolgus Claudin-18.2, His,Avitag ELISA
0.1 µg of Biotinylated Human / Cynomolgus Claudin-18.2, His,Avitag per well



Immobilized Biotinylated Human / Cynomolgus Claudin-18.2, His,Avitag (Cat. No. CL2-H82E3) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Monoclonal Anti-Chimeric

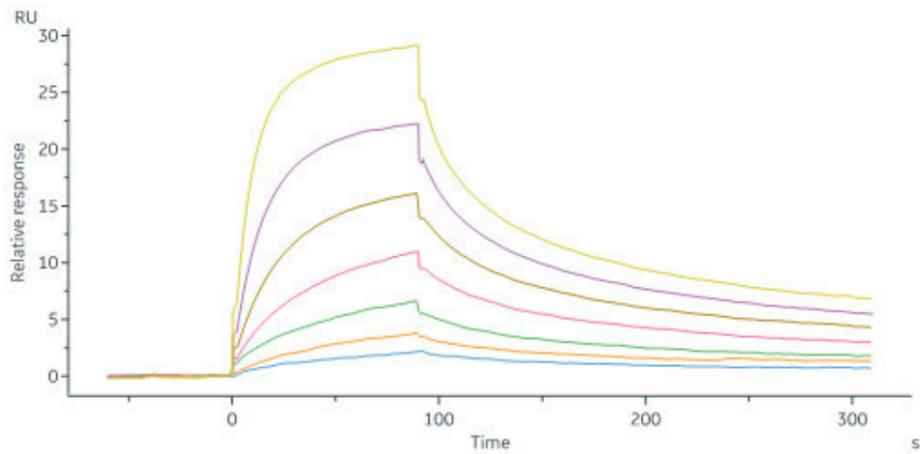
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Claudin-18.2 Antibody, Human IgG1 with a linear range of 0.1-0.8 ng/mL (QC tested).

Bioactivity-SPR



Biotinylated Human / Cynomolgus Claudin-18.2, His,Avitag (Cat. No. CL2-H82E3) captured on Biotin CAP-Series S Sensor Chip can bind Monoclonal Anti-Chimeric Claudin-18.2 Antibody, Human IgG1 with an affinity constant of 4.74 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

Background

Claudins (CLDNs) are a family of proteins that form tight junctions and maintain the polarity of epithelial and endothelial cells. CLDN18 is specifically expressed in the stomach and lung. Of the two CLDN18 isoform transcripts produced by alternative splicing, CLDN18.2 is a highly selective gastric lineage marker that determines the gastric phenotype in a neoplastic condition, whereas CLDN18.1 is lung specific. CLDN18.2 is a highly selective gastric lineage antigen expressed exclusively on short-lived differentiated gastric epithelial cells where it has only limited accessibility to antibody drugs.^{14,15} CLDN18.2 is maintained during the course of malignant transformation and thus frequently displayed on the surface of human gastric cancer cells.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.

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