

Rev04
 Update: Jun,09,2022

DATASHEET

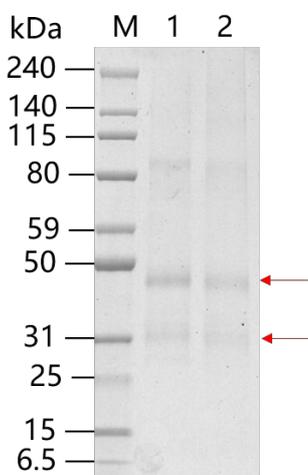
CLDN18.2, hFc, Human

Cat. No.: Z03709

Product Introduction

Species	Human
Protein Construction	<div style="display: flex; align-items: center; gap: 10px;"> <div style="background-color: #0056b3; color: white; padding: 5px; border-radius: 3px;"> CLDN18.2 (Full length) Accession # P56856-2 </div> <div style="background-color: #76b82a; color: white; padding: 5px; border-radius: 3px;"> hFc </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px; font-size: small;"> N-term C-term </div>
Purity	≥ 75% as analyzed by SDS-PAGE
Endotoxin Level	≤ 0.2 EU/μg of protein by gel clotting method
Biological Activity	Immobilized anti Claudin 18.2 antibody at 1 μg/ml (100 μl/Well). Dose response curve for CLDN18.2, hFc, Human with the EC ₅₀ of 17.60 ng/ml determined by ELISA.
Expression System	293 Cells
Formulation	Supplied as a solution in 20 mM PB, 500 mM NaCl, 10% glycerol, 0.025% DDM, 0.005% CHS, pH 7.0.
Concentration	Please refer to the COA for the specific lot.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Avoid repeated freeze-thaw cycles.

Examples

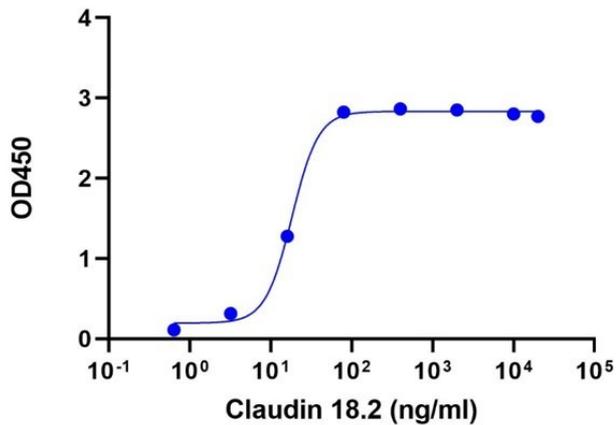


Purity of CLDN18.2, hFc, Human (Cat. No. Z03709) was assessed by coomassie stained SDS-PAGE. Purity ≥ 75% was observed for 2 μg of protein.

Lane 1: 2 μg of Z03709, under reducing (R) conditions, no heat treatment before loading.

Lane 2: 2 μg of Z03709, under non-reducing (N) conditions.

The two arrows point to the bands corresponding to CLDN 18.2 protein which run in the gel with two distinct molecular weights, typical anomalous SDS-PAGE migration of membrane proteins.



Immobilized anti Claudin 18.2 antibody at 1 $\mu\text{g/ml}$ (100 $\mu\text{l/Well}$). Dose response curve for CLDN18.2, hFc, Human with the EC_{50} of 17.60 ng/ml determined by ELISA.

Background

Target Background : Claudin-18 is a protein that in humans is encoded by the CLDN18 gene. CLDN18 belongs to the large claudin family of proteins, which form tight junction strands in epithelial cells. The Expression of Isoform A2 (CLDN18.2) is restricted to the stomach mucosa where it is predominantly observed in the epithelial cells of the pit region and the base of the gastric glands including exocrine and endocrine cells (at protein level). CLDN18.2 is founded to be abundant in gastric tumors, Experimental antibody IMAB362 targets Claudin 18.2 to help treat gastric cancers.

Synonyms : Claudin-18.2; Claudin 18.2; CLDN18; Claudin-18

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.