Anti-Claudin-18 Isoform 2 IgG Antibody, Biotin-Labeled

Catalog: 101565

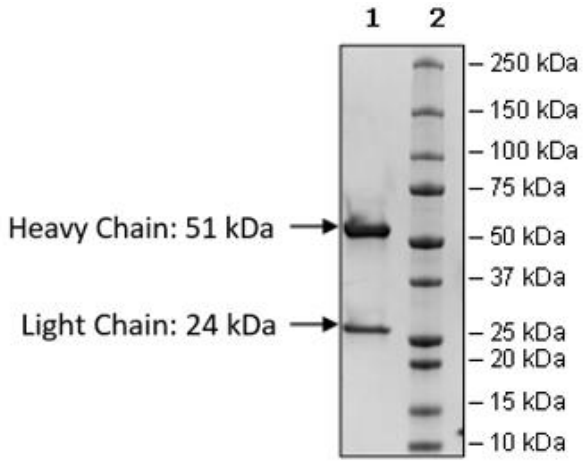
Lot: 220908

Product Information

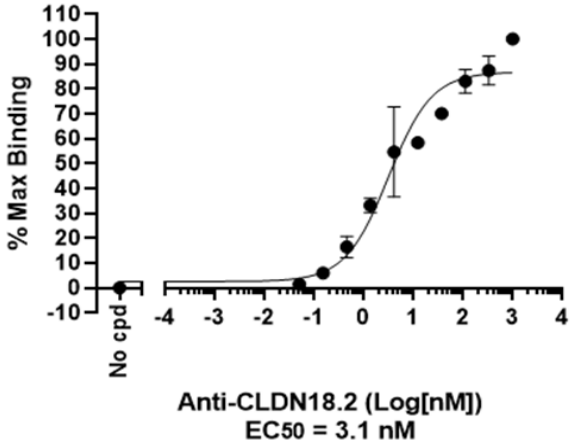
Description:	Biotinylated anti-Claudin-18 isoform 2 (CLDN18.2) IgG1 monoclonal antibody is a purified recombinant antibody that recognizes human CLDN18.2 antigen. This antibody has been tested for specific binding to purified human CLDN18.2 protein.
Label:	This protein is enzymatically biotinylated using Avi-Tag™ technology. Biotinylation is confirmed to be ≥90%.
Concentration:	0.40 mg/ml
Species:	Human
Isotype:	IgG1
Clonality:	Monoclonal
Formulation:	8 mM phosphate, pH 7.4, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol
Expression System:	Heavy chain (HC) and Light chain (LC) co-expressed in HEK293
Purification:	Protein A affinity
Format:	Aqueous buffer solution
Stability:	At least 12 months at -80°C. Avoid freeze/thaw cycles.
Storage:	-80°C
MW:	Total: 150 kDa; Light Chain: 24 kDa; Heavy Chain: 51 kDa
Purity:	≥90%
Assay Conditions:	Functional validation: The antibody was validated by measuring anti-CLDN18.2 binding to CLDN18.2 antigen in ELISA. The CLDN18.2 protein was coated onto a 96-well plate overnight at 4°C (50 µl/well at a concentration of 2 µg/ml in PBS). The plate was washed 3 times with Immuno Buffer 1 (BPS Bioscience #79311) and blocked using 100 µl of Blocking Buffer 2 (BPS Bioscience #79728) with DDM/CHS detergent (dodecyl-β-D-maltoside (DDM) 0.05%, cholesteryl hemisuccinate (CHS) 0.01%) for 1 hour at room temperature. After removing the blocking buffer, 50 µl/well of purified biotinylated anti-CLDN18.2 antibody (BPS Bioscience #101565), serially diluted in Blocking Buffer 2 with DDM/CHS detergent, was added for 60 minutes at room temperature. After 3 more washes, the plate was incubated with Streptavidin-HRP, washed, and incubated with colorimetric HRP substrate. The reaction was stopped, and absorbance was read at 450 nm. The Blank value was subtracted from all values. Flow cytometry validation: One million cells were stained with 1 µg of biotinylated anti-CLDN18.2 IgG for 30 minutes on ice, washed three times, stained with Streptavidin PE Conjugate (ThermoFisher #12-4317-87) for 30 minutes on ice, washed three times, and analyzed by flow cytometry. CLDN18.2 CHO cells (green) were compared to parental CHO-K1 cells (blue). Y-axis is the cell count. X-axis is PE intensity.
Applications:	This product is for research use only. It is not suitable for human diagnostic or therapeutic use.

Quality Control Data

4-20% SDS-PAGE Coomassie Staining



CLDN18.2: Anti-CLDN18.2-Biotin Binding Assay



Cell surface staining of CLDN18.2 in CLDN18.2 CHO Cell Line, measured by flow cytometry