

# Anti-Claudin-18.2, AlpHcAbs<sup>®</sup> Human antibody

## Summary

<b>Code</b>	300-517-001
<b>Immunogen</b>	Recombinant human Claudin-18.2
<b>Host</b>	Alpaca pacous
<b>Isotype</b>	VHH domain of alpaca IgG2b/2c fused to Human IgG1 Fc(mutation)
<b>Conjugate</b>	Unconjugated
<b>Specificity</b>	Human Claudin-18.2
<b>Cross-Reactivity</b>	Cross-reactivity with cynomolgus 18.2
<b>Purity</b>	Recombinant Expression and Affinity purified
<b>Concentration</b>	1mg/ml
<b>Formation</b>	Liquid, 10mM PBS (pH 7.5), 0.05% sucrose, 0.1% trehalose, 0.01% proclin300, 50% Glycerol
<b>Storage</b>	Store at -20 °C, (Avoid freeze / thaw cycles), Stable for 12 months at -20°C

## Description

Anti-Claudin-18.2, AlpHcAbs<sup>®</sup> Human antibody is designed for detecting human Claudin-18.2 specifically. Anti-Claudin-18.2, AlpHcAbs<sup>®</sup> Human antibody is recombinant VHH domain of alpaca IgG2b/2c fused to Human IgG1 Fc. Based on ELISA, Anti-Claudin-18.2, AlpHcAbs<sup>®</sup> Human antibody reacts with human Claudin-18.2, and has reactivity with cynomolgus Claudin-18.2.

## Background

The Claudin-18.2 (CLDN 18.2) is an isoform of Claudin 18, and belongs to the tight junction protein family. The Claudin-18.2 is a highly selective biomarker with limited expression in normal tissues and often abnormal expression during the occurrence and development of various primary malignant tumors, such as gastric cancer/gastroesophageal junction (GC/GEJ) cancer, breast cancer, colon cancer, liver cancer, head and neck cancer, bronchial cancer and non-small-cell lung cancer. Claudin-18.2 participates in the proliferation, differentiation and migration of tumor cells. Recent studies have identified Claudin-18.2 expression as a potential specific marker for the diagnosis and treatment of these tumors. Using antibody with Fc(mutation), the background from Fc receptors will be eliminated.

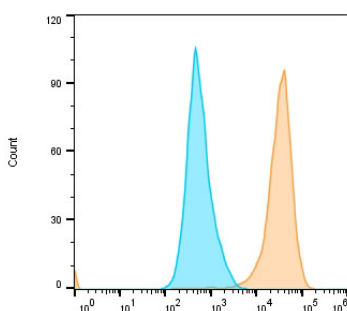
## Benefits

- High lot-to-lot consistency
- Increased sensitivity and higher affinity
- Animal-free production

## Suggested Working Concentration

- ELISA** 1:4,000-1:10000
- Flow Cytometry** 1:200-1:1000

Dilution factors are presented in the form of a range because the optimal dilution is a function of many factors, such as antigen density, permeability, etc. The actual dilution used must be determined empirically.



Flow cytometric analysis of Claudin-18.2-overexpressed HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) labeling Claudin-18.2 with 300-517-001 at 1:10000 dilution(yellow) compared with Human IgG1-Isotype control(green). Anti-Human IgG(H+L),HcAbs<sup>®</sup> Goat antibody(FITC)(023-403-006), at 1/1000 dilution was used as the secondary antibody.

This product is for research use only and is not approved for use in humans or in clinical