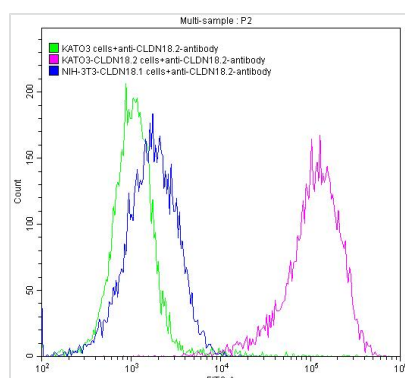




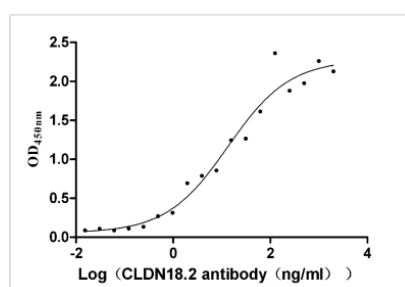
Claudin-18.2 Recombinant Monoclonal Antibody

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| Product Code | CSB-RA005498A1HU |
| Storage | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |
| Uniprot No. | P56856-2 |
| Immunogen | Recombinant Human Claudin-18.2 protein |
| Species Reactivity | Human |
| Tested Applications | ELISA, FC; Recommended dilution: FC:1:50-1:200 |
| Form | Liquid |
| Conjugate | Non-conjugated |
| Storage Buffer | Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4 |
| Purification Method | Affinity-chromatography |
| Isotype | hIgG1 |
| Clonality | Monoclonal |
| Product Type | Recombinant Antibody |
| Immunogen Species | Homo sapiens (Human) |
| Research Area | Signal transduction |
| Gene Names | CLDN18 |
| Clone No. | 9C2 |

Image



Untransfected KATO3 cells surface (green line), transfected Human CLDN18.2 KATO3 stable cells surface (red line) and transfected Human CLDN18.1 NIH-3T3 stable cells surface (blue line) were stained with anti-CLDN18.2 antibody (2 μ g/1*10⁶ cells), washed and then followed by FITC-conjugated anti-Human IgG Fc antibody and analyzed with flow cytometry.



The Binding Activity of Human CLDN18.2 with Anti-CLDN18.2 recombinant antibody. Activity: Measured by its binding ability in a functional ELISA. Immobilized Human CLDN18.2 (CSB-MP005498HU(A5)) at 5 μ g/mL can bind Anti-CLDN18.2 recombinant antibody, the EC₅₀ is 6.554-27.87 ng/mL.



Description

The creation of the Claudin-18.2 recombinant monoclonal antibody involves a meticulous process to ensure its high quality and specificity. Initially, B cells are isolated from the spleen of an immunized animal, with the recombinant human Claudin-18.2 protein serving as the immunogen. The RNA extracted from the B cells is converted into cDNA through reverse transcription. The Claudin-18.2 antibody genes are then amplified using specific primers targeting the antibody constant regions and inserted into an expression vector. This vector is subsequently transfected into host cells, facilitating the production of the Claudin-18.2 recombinant monoclonal antibody. After a period of cell culture, the antibody is collected from the cell culture supernatant and purified using affinity chromatography, yielding a highly purified form suitable for diverse applications. Stringent characterization assays, including ELISA and FC analysis, are performed to validate the antibody's specificity and functionality in detecting human Claudin-18.2 protein. The meticulous production process guarantees the development of a reliable and effective Claudin-18.2 recombinant monoclonal antibody, which plays a vital role in various Claudin-18.2-related research.