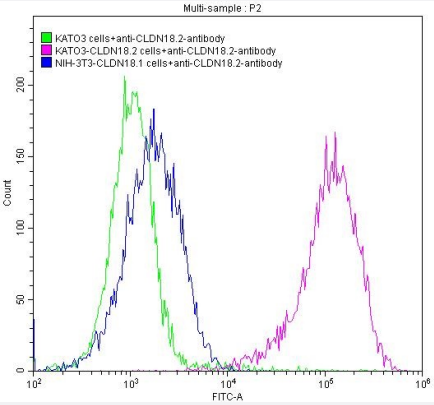
RecomAb™

# CLDN18 recombinant monoclonal antibody, clone 9C2

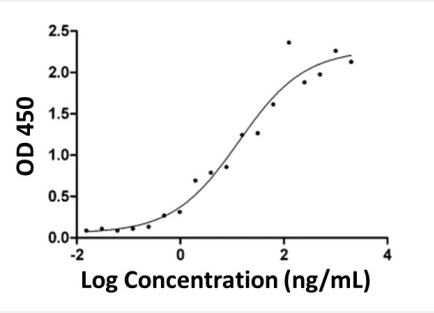
Catalog # RAB07551 Size 100 uL

## Applications




### Flow Cytometry

Flow cytometry analysis of untransfected KATO3 cells (green line), transfected human CLDN18.2 KATO3 stable cells (red line) and transfected human CLDN18.1 NIH-3T3 stable cells (blue line) were stained with CLDN18 recombinant monoclonal antibody, clone 9C2 (Cat # RAB07551) (2ug/1*10$^6$cells). The cells were washed and then followed by FITC-conjugated Goat Anti-Human IgG, Fc-gamma antibody (CSB-PA271513).




The ELISA results show that the binding activity of human CLDN18.2 with CLDN18 recombinant monoclonal antibody, clone 9C2 (Cat # RAB07551). Immobilized Human CLDN18.2 (CSB-MP005498HU(A5)) at 5 ug/mL can bind CLDN18 recombinant monoclonal antibody, clone 9C2 (Cat # RAB07551), the $EC_{50}$ is 6.554-27.87 ng/mL.

## Specification

| | |
|---|---|
| **Product Description** | Human recombinant monoclonal antibody raised against human CLDN18. |
| **Antibody Species** | Human |
| **Immunogen** | Original antibody is raised against recombinant protein of human CLDN18. |
| **Reactivity** | Human |
| **Form** | Liquid |

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| | |
|---|---|
| **Preparation Method** | Mammalian cell (HEK293) expression system |
| **Purification** | Affinity chromatography purification |
| **Isotype** | IgG1 |
| **Quality Control Testing** | Binding activity<br>The ELISA results show that the binding activity of human CLDN18.2 with CLDN18 recombinant monoclonal antibody, clone 9C2 (Cat # RAB07551). Immobilized Human CLDN18.2 (CSB-MP005498HU(A5)) at 5 ug/mL can bind CLDN18 recombinant monoclonal antibody, clone 9C2 (Cat # RAB07551), the $EC_{50}$ is 6.554-27.87 ng/mL. |
| **Recommend Usage** | ELISA<br>Flow Cytometry(1:20-1:200)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, pH7.4 (0.03% Proclin 300 and 50% glycerol) |
| **Storage Instruction** | Store at -20°C or -80°C.<br>Aliquot to avoid repeated freezing and thawing. |

## Applications

- Flow Cytometry

  Flow cytometry analysis of untransfected KATO3 cells (green line), transfected human CLDN18.2 KATO3 stable cells (red line) and transfected human CLDN18.1 NIH-3T3 stable cells (blue line) were stained with CLDN18 recombinant monoclonal antibody, clone 9C2 (Cat # RAB07551)(2ug/1*$10^6$cells). The cells were washed and then followed by FITC-conjugated Goat Anti-Human IgG, Fc-gamma antibody (CSB-PA271513).

- Enzyme-linked Immunoabsorbent Assay

## Gene Info — CLDN18

| | |
|---|---|
| **Entrez GeneID** | 51208 |
| **Protein Accession#** | P56856-2 |
| **Gene Name** | CLDN18 |
| **Gene Alias** | SFTA5, SFTPJ |
| **Gene Description** | claudin 18 |
| **Omim ID** | 609210 |
| **Gene Ontology** | Hyperlink |

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| | |
|---|---|
| **Gene Summary** | CLDN18 belongs to the large claudin family of proteins, which form tight junction strands in epithelial cells (Niimi et al., 2001 [PubMed 11585919]).[supplied by OMIM |
| **Other Designations** | surfactant associated 5\|surfactant associated protein J\|surfactant, pulmonary associated protein J |

## Pathway

- Cell adhesion molecules (CAMs)
- Leukocyte transendothelial migration
- Tight junction

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