# Human Claudin-3 Fluorescein-conjugated Antibody

Monoclonal Mouse $IgG_{2A}$ Clone # 385021

Catalog Number: FAB4620F

100 TESTS

## DESCRIPTION

| | |
|---|---|
| **Species Reactivity** | Human |
| **Specificity** | Stains human Claudin-3 transfectants but not irrelevant transfectants. |
| **Source** | Monoclonal Mouse $IgG_{2A}$ Clone # 385021 |
| **Purification** | Protein A or G purified from hybridoma culture supernatant |
| **Immunogen** | HEK293 human embryonic kidney cell line transfected with human Claudin-3<br>Met1-Val220<br>Accession # O15551 |
| **Conjugate** | Fluorescein<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm |
| **Formulation** | Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

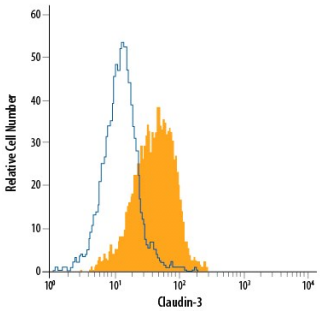
## APPLICATIONS

**Please Note:** *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

| | Recommended Concentration | Sample |
|---|---|---|
| **Flow Cytometry** | 10 µL/$10^6$ cells | See Below |

## DATA

**Flow Cytometry**




**Detection of Claudin-3 in PC-3 Human Cell Line by Flow Cytometry.** PC-3 human prostate cancer cell line was stained with Mouse Anti-Human Claudin-3 Fluorescein-conjugated Monoclonal Antibody (Catalog # FAB4620F, filled histogram) or isotype control antibody (Catalog # IC003F, open histogram). View our protocol for Staining Membrane-associated Proteins.

## PREPARATION AND STORAGE

| | |
|---|---|
| **Shipping** | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| **Stability & Storage** | **Protect from light. Do not freeze.**<br>● 12 months from date of receipt, 2 to 8 °C as supplied. |

## BACKGROUND

Claudin-3 is a 23 kDa multipass membrane protein in the claudin family of epithelial tight junction proteins. Claudin-3 is upregulated by EGF and in inflammation and a variety of epithelial cancers. Its expression is lost in the blood brain barrier during pathological disruptions of that structure. Claudin-3 binding to the *Clostridium perfringes* exotoxin induces epithelial cell lysis. Human Claudin-3 shares 91% amino acid sequence identity with mouse and rat Claudin-3.



www.RnDSystems.com For research use only. Not for use in humans.
**USA & CANADA** Tel: (800) 343-7475 **EUROPE** Tel: +44 (0)1235 529449 **CHINA** Tel: +86 (21) 52380373