

Met1-Val220 Accession # O15551

# **Human Claudin-3 Antibody**

Monoclonal Mouse IgG<sub>2A</sub> Clone # 385021 Catalog Number: MAB4620

37		
Human		
Stains human Claudin-3 transfectants but not irrelevant transfectants.		
Monoclonal Mouse IgG <sub>2A</sub> Clone # 385021		
Protein A or G purified from hybridoma culture supernatant		
HEK293 human embryonic kidney cell line transfected with human Claudin-3		

## **APPLICATIONS**

DESCRIPTION Species Reactivity

Specificity

**Immunogen** 

Formulation

Source Purification

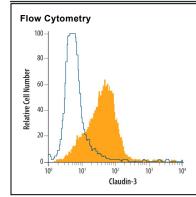
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website

\*Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS

	Recommended Concentration	Sample
Flow Cytometry	2.5 μg/10 <sup>6</sup> cells	See Below
Immunocytochemistry	8-25 μg/mL	Immersion fixed PC-3 human prostate cancer cell line
Immunohistochemistry	8-25 μg/mL	See Below

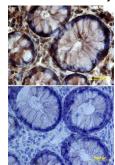
Lyophilized from a 0.2 µm filtered solution in PBS and NaCl with Trehalose. See Certificate of Analysis for details

#### DATA



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 Monoclonal Antibody (Catalog # MAB4620, filled histogram) or isotype control antibody (Catalog # MAB003, open histogram), followed by Phycoerythrinconjugated Anti-Mouse IgG F(ab')<sub>2</sub> Secondary Antibody (Catalog # F0102B).

### Immunohistochemistry



Claudin-3 in Human Colon, Claudin-3 was detected in immersion fixed paraffin-embedded sections of human colon array using Mouse Anti-Human Claudin-3 Monoclonal Antibody (Catalog # MAB4620) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Lower panel shows a lack of labeling if primary antibodies are omitted and tissue is stained only with secondary antibody followed by incubation with detection reagents. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

#### PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. Shipping

\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

#### 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.

