

## DESCRIPTION

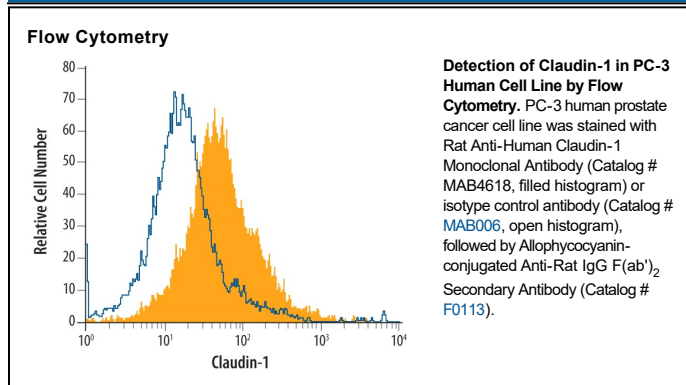
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Stains human Claudin-1 transfectants but not irrelevant transfectants.
<b>Source</b>	Monoclonal Rat IgG <sub>2A</sub> Clone # 421203
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	CHO Chinese hamster ovary cell line transfected with human Claudin-1 Met1-Val211 Accession # O95832
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

## 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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	2.5 µg/10 <sup>6</sup> cells	See Below
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

Claudin-1 is a 23 kDa multipass membrane protein in the Claudin family of epithelial tight junction proteins. Claudin-1 is expressed by epithelial cells in a wide variety of tissues as well as in Langerhans cells and dendritic cells. It is up or downregulated in many cancers and is required for the entry of hepatitis C virus into hepatocytes. Human Claudin-1 shares 91% aa sequence identity with mouse and rat Claudin-1.