

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Claudin-12. Stains human Claudin-12 transfectants but not irrelevant transfectants.
Source	Monoclonal Mouse IgG _{2A} Clone # 393314
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	HEK293 human embryonic kidney cell line transfected with human Claudin-12 Met1-Thr244 Accession # NP_036261
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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	0.25-1 µg/10 ⁶ cells	Caco-2 human colorectal adenocarcinoma cell line

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.**

- 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Claudin-12 is a 244 amino acid multipass membrane protein in the claudin family of epithelial tight junction proteins. Claudin-12 is expressed on intestinal, bladder, and blood-brain barrier epithelial cells. Human Claudin-12 shares 92% aa sequence identity with mouse and rat Claudin-12.

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