

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Claudin-8. Stains human Claudin-8 transfectants but not irrelevant transfectants.
Source	Monoclonal Mouse IgG ₁ Clone # 474210
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	HEK293 human embryonic kidney cell line transfected with human Claudin-8 Met1-Val225 (Ser151Pro) Accession # P56748
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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
Intracellular Staining by Flow Cytometry	0.25-1 µg/10 ⁶ cells	HEK293 human embryonic kidney cell line transfected with human Claudin-8

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. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Claudin-8 is a 225 amino acid (aa), 25 kDa four-transmembrane protein in the Claudin family of tight junction proteins. It is selectively expressed in tight junctions in the kidney thin descending limb, distal tubule and collecting duct, but is also found in liver and intestinal tight junctions. It is thought to function as an ion barrier protein. The extracellular portions of human Claudin-8 share 86% and 89% aa identity with corresponding portions of mouse and rat Claudin-8, respectively.

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