

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Claudin-3 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 385013
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	HEK293 human embryonic kidney cell line transfected with human Claudin-3 Met1-Val220 Accession # O15551
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. *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	PC-3 human prostate cancer 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-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 perfringens* exotoxin induces epithelial cell lysis. Human Claudin-3 shares 91% amino acid sequence identity with mouse and rat Claudin-3.

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