

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Claudin-4 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 382316
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human Claudin-4 Met1-Val209 Accession # NP_001296
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% 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.

Immunocytochemistry Optimal dilution of this antibody should be experimentally determined.

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-4 is a multipass membrane protein in the claudin family of tight junction proteins. Claudin-4 is a 209 amino acid molecule with four transmembrane segments. It is preferentially expressed in intestinal mucosa epithelium and is involved in epithelial tissue development. It is also up-regulated in several carcinomas. Phosphorylation of Claudin-4 regulates paracellular epithelial permeability. Human Claudin-4 shares 83% aa sequence identity with mouse and rat Claudin-4.

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