

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Claudin-19 in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 693202
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human Claudin-19 Accession # Q8N6F1
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.

Immunohistochemistry 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-19 is a 23 kDa multipass membrane protein in the Claudin family of epithelial tight junction proteins. Claudin-19 is expressed by renal tubular epithelial cells, retinal pigment epithelial cells, and Schwann cells. It interacts with Claudin-16 to form cation-selective paracellular channels in the thick ascending loop of the kidney. Mutations of Claudin-19 are associated with renal disorders of magnesium and calcium reabsorption. Human Claudin-19 shares 95% aa sequence identity with mouse and rat Claudin-19. An alternate splice form of human Claudin-19 has a deletion within the C-terminal cytoplasmic region.

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