

DESCRIPTION

Species Reactivity	Human
Specificity	Detects CLCA1 in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 1022517
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human embryonic kidney cell HEK293-derived CLCA1 Asn22-Ser477 Accession # A8K714
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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

CLCA1 is a member of the calcium sensitive chloride conductance protein family which may be involved in mediating calcium-activated chloride conductance. This protein is expressed in goblet cells and intestinal basal crypt epithelial of the small intestine and colon. CLCA1 regulates mucin expression and participates in innate immune responses by binding to yet unidentified molecules on inflammatory cells for cytokine and chemokine production. CLCA1 also targets lymphatic endothelial cells and cancer cells. CLCA1 is a candidate as a modulating factor in the pathogenesis of mucus hypersecretory-associated respiratory and gastrointestinal diseases including asthma, COPD, cystic fibrosis, pneumonia, colon colitis, cystic fibrosis intestinal mucous disease, ulcerative colitis, and gastrointestinal parasitic infection.

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