

Rabbit anti-Human, Mouse CLCA1 Polyclonal Antibody | anti-CLCA1 antibody

CLCA1 Antibody

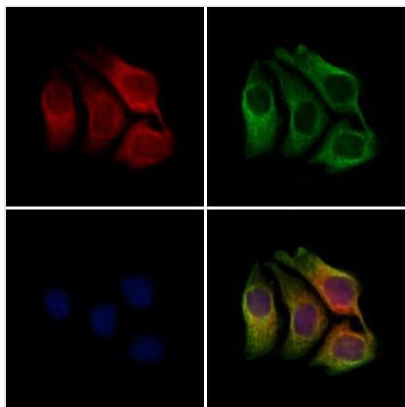
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329062	Rabbit	Human, Mouse	ELISA

PRODUCT SYNONYMS

CLCA1; Polyclonal Antibody; CLCA1 Antibody; CaCC; CaCC-1; CACC1; Calcium dependent chloride channel 1; Calcium-activated chloride channel family member 1; Calcium-activated chloride channel protein 1; Calcium-activated chloride channel regulator 1; Chloride channel calcium activated family member 1; Chloride channel regulator 1; CLCA family member 1 chloride channel regulator; CLCA1_HUMAN; CLCRG1; GOB5; hCaCC-1; hCLCA1; anti-CLCA1 antibody

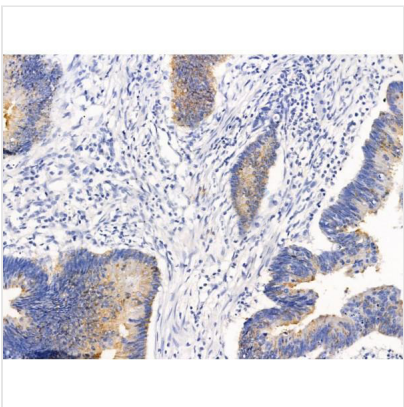
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	CLCA1 Antibody detects endogenous levels of total CLCA1.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	914
Applicable Applications for anti-CLCA1 antibody	ELISA
Immunogen	A synthesized peptide derived from human CLCA1, corresponding to a region within C-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



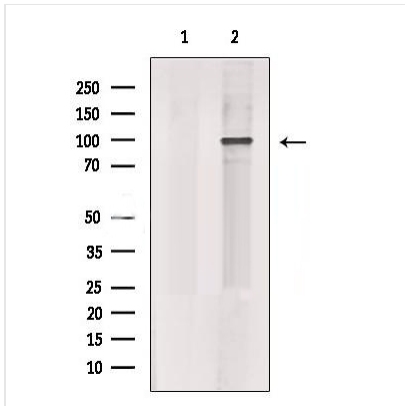
IF (Immunofluorescence)

AAA329062 staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA329062 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



IHC (Immunohistochemistry)

AAA329062 at 1/100 staining Human colorectal cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from B16F10 cells, using CLCA1 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CLCA1 antibody

Function: May be involved in mediating calcium-activated chloride conductance. May play critical roles in goblet cell metaplasia, mucus hypersecretion, cystic fibrosis and AHR. May be involved in the regulation of mucus production and/or secretion by goblet cells. Involved in the regulation of tissue inflammation in the innate immune response. May play a role as a tumor suppressor. Induces MUC5AC.

Post Translational Modifications: Glycosylated. The 125-kDa product is autoproteolytically processed by the metalloprotease domain and yields to two cell-surface-associated subunits, a 90-kDa protein and a group of 37- to 41-kDa proteins. The cleavage is necessary for calcium-activated chloride channel (CaCC) activation activity.

Subcellular Location: Secreted>Extracellular space. Cell membrane>Peripheral membrane protein>Extracellular side. Note: Protein that remains attached to the plasma membrane appeared to be predominantly localized to microvilli.

Tissue Specificity: Highly expressed in small intestine and colon namely in intestinal basal crypt epithelia and goblet cells, and appendix. Weakly expressed in uterus, testis and kidney. Expressed in the airways epithelium of both asthmatic and healthy patients. Expressed in the bronchial epithelium, especially in mucus-producing goblet cells. Expressed in normal turbinate mucosa and nasal polyp. Expressed in.

Similarity: The metalloprotease region is responsible for autoproteolytic processing. It can also cross-cleave other CLCA substrates. Belongs to the CLCR family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	110611231
NCBI GeneID	1179
NCBI Accession #	NP_001276.2
NCBI GenBank Nucleotide #	NP_001276.2
UniProt Accession #	A8K7I4
Molecular Weight	Observed Molecular Weight: (Observed)100kD. Predicted Molecular Weight: (Calculated)100kDa.
NCBI Official Full Name	calcium-activated chloride channel regulator 1
NCBI Official Synonym Full Names	chloride channel accessory 1
NCBI Official Symbol	CLCA1
NCBI Official Synonym Symbols	CACC; GOB5; CACC1; CLCRG1; CaCC-1; hCLCA1; hCaCC-1
NCBI Protein Information	calcium-activated chloride channel regulator 1
UniProt Protein Name	Calcium-activated chloride channel regulator 1
UniProt Gene Name	CLCA1
UniProt Synonym Gene Names	CACC1; hCLCA1; CaCC-1; hCaCC-1
UniProt Entry Name	CLCA1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/clca1-antibody-elisa/329062>