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CLCA1 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP6335a

Specification

CLCA1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession	A8K7I4
Other Accession	Q9UPC6

CLCA1 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 1179

Other Names
Calcium-activated chloride channel regulator 1, 34--, Calcium-activated chloride channel family member 1, hCLCA1, Calcium-activated chloride channel protein 1, CaCC-1, hCaCC-1, CLCA1, CACC1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP6335a was selected from the N-term region of human CLCA1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CLCA1 Antibody (N-term) Blocking Peptide - Protein Information

Name CLCA1

Synonyms CACC1

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.

Cellular 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 Location
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.

CLCA1 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

CLCA1 Antibody (N-term) Blocking Peptide - Images

CLCA1 Antibody (N-term) Blocking Peptide - Background

CLCA1 belongs to the calcium sensitive chloride conductance protein family. To date, all members of this gene family map to the same site on chromosome 1p31-p22 and share high degrees of homology in size, sequence and predicted structure, but differ significantly in their tissue distributions. This gene product is expressed predominantly in the small intestine and colon mucosa, and may be involved in secretory or absorptive processes.

CLCA1 Antibody (N-term) Blocking Peptide - References

Ritzka, M., et al., Hum. Genet. 115(6):483-491 (2004).Kamada, F., et al., Genes Immun. 5(7):540-547 (2004).Greenwood, I.A., et al., J. Biol. Chem. 277(25):22119-22122 (2002).Loewen, M.E., et al., Biochem. Biophys. Res. Commun. 298(4):531-536 (2002).Toda, M., et al., J. Allergy Clin. Immunol. 109(2):246-250 (2002).