



Rabbit Anti-CLCA3 antibody

SL13706R

Product Name:	CLCA3
Chinese Name:	钙激活氯离子Channel protein3抗体
Alias:	Calcium activated chloride channel 3; Calcium-activated chloride channel regulator family member 3; Chloride channel accessory 3 pseudogene; chloride channel calcium activated 3; Chloride channel calcium activated family member 3; Clca1; Clca2; CLCA3P; Gob 5; Gob-5; Gob5; hCLCA3; mCLCA3; MGC143984; MGC143985.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Mouse,Rat,Dog,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	98kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from mouse CLCA3:811-913/913
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The calcium-activated chloride channel (CLCA) protein family, which includes the human homologs CLCA1 and CLCA2, display distinct tissue distribution patterns. CLCA1 is expressed as a precursor protein that is processed into two cell surface associated subunits and a group of proteins. CLCA1 is upregulated by interleukin-9 and

regulates the expression of mucins. CLCA1 may provide a therapeutic target to control mucus overproduction in airway disease patients with cystic fibrosis. CLCA2 expression is downregulated in breast cancer, therefore CLCA2 is thought to act as a tumor suppressor in normal cells. CLCA3 (known as Clca3 in mouse) is a structurally divergent member of the CLCA family that does not function as a channel protein. CLCA4 is a CLCA member that is expressed in human rectal mucosa, CLCA5 shows strong expression in eye and spleen, and CLCA6 is primarily expressed in intestine and stomach.

Function:

mCLCA3 (alias gob-5) is the third murine member of the family of calcium-activated chloride channels (CLCA-family). mCLCA3 plays a role in diseases with secretory dysfunctions, including asthma and cystic fibrosis. The mCLCA3 protein is located in mucin granule membranes of goblet cells of the intestinal, respiratory and reproductive tracts. It is also secreted into the mucin layer on mucosal membranes. The protein appears to be involved in the synthesis, condensation or secretion of mucins.

Subcellular Location:

Secreted

Tissue Specificity:

Exclusively expressed in the digestive and respiratory tracts and in the uterus (at protein level). Expressed in small intestine, colon, stomach, and uterus and slightly expressed in trachea tissue. Exclusively expressed in the mucin granule membranes of gastrointestinal, respiratory, and uterine goblet cells and other mucin-producing cells. In the colon, expressed in the surface mucous cells. In the stomach highly expressed in the surface epithelium in the pylorus. Strongly expressed in the airway epithelium of lung tissues associated with airway hyperresponsiveness (AHR).

Post-translational modifications:

The 110 kDa translation product is cleaved in the endoplasmic reticulum into a 75 kDa N-terminal and a 35 kDa C-terminal products that remain physically associated with each other.

Glycosylated.

Similarity:

Belongs to the CLCR family.
Contains 1 VWFA domain.

SWISS:

Q8R049

Gene ID:

23844

Database links:

[Entrez Gene: 23844](#) Mouse

[SwissProt: Q8R049](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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