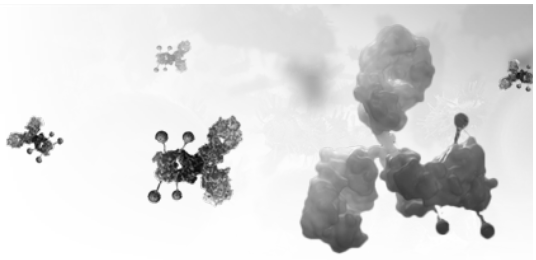

Rabbit Anti-Mouse CLCA3 (aa 811-913) polyclonal antibody (CABT-L750R)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	CLCA3
Target	CLCA3
Immunogen	KLH conjugated synthetic peptide derived from mouse CLCA3:811-913/913
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Mouse, Rat, Dog
Purification	Affinity purified by Protein A
Conjugate	Unconjugated
Applications	WB, ELISA, IHC-P, IHC-F, ICC, IF Recommended dilution WB=1:500-2000 ELISA=1:5000-10000 IHC-P=1:100-500 IHC-F=1:100-500 ICC=1:100-500 IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Sequence Similarities	Belongs to the CLCR family. Contains 1 VWFA domain.

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

Molecular Weight	98kDa
Cellular Localization	Secreted
Format	Liquid
Concentration	Lot specific
Size	50 µl, 100 µl, 200 µl
Buffer	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Preservative	0.03% Proclin300
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Ship	Wet ice

BACKGROUND

Introduction	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.

GENE INFORMATION

Entrez Gene ID	23844
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.

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