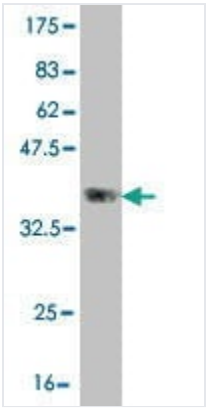
CLCA2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CLCA2, Monoclonal Antibody
Full Product Name	CLCA2 (Calcium-activated Chloride Channel Regulator 2, Calcium-activated Chloride Channel Family Member 2, hCLCA2, Calcium-activated Chloride Channel Protein 3, CaCC-3, hCaCC-3, CACC3) (FITC)
Product Gene Name	anti-CLCA2 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	1B9
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CLCA2.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	104kDa
OMIM	604003
3D Structure	ModBase 3D Structure for Q9UQC9
Immunogen	Partial recombinant corresponding to aa300-400 from CLCA2 (NP_006527) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	PTFSLVQAGDKVVCLVLDVSSKMAEADRLLQLQQAAEFYLMQIVEIHTFVGIASFDSKGEIRAQLHQINSNDDRKLLVSYLPTTVSAKTDISICSGLKKGF
Conjugate	FITC
Product Categories/Family for anti-CLCA2 antibody	Antibodies; Ion Channel
Applications Tested/Suitable for anti-CLCA2 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-CLCA2 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-CLCA2 antibody	Plays a role in modulating chloride current across the plasma membrane in a calcium-dependent manner, and cell adhesion. Involved in basal cell adhesion and/or stratification of squamous epithelia. May act as a tumor suppressor in breast and colorectal cancer. Plays a key role for cell adhesion in the beginning stages of lung metastasis via the binding to ITGB4.
Other Notes	Small volumes of anti-CLCA2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CLCA2 purchase	MBS6146530 is an antibody targeting CLCA2. Also known as CLCA2 (Calcium-activated Chloride Channel Regulator 2, Calcium-activated Chloride Channel Family Member 2, hCLCA2, Calcium-activated Chloride Channel Protein 3, CaCC-3, hCaCC-3, CACC3) (FITC). Reactive in Human. Host: Mouse.



Western Blot (WB) of anti-CLCA2 antibody
Western Blot detection against Immunogen (36.85kD).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CLCA2. It may not necessarily be applicable to this product.

NCBI GI #	5729769
NCBI GeneID	9635
NCBI Accession #	NP_006527
UniProt Primary Accession #	Q9UQC9
UniProt Related Accession #	Q9UQC9
GenBank Nucleotide #	NM_006536
NCBI Official Full Name	calcium-activated chloride channel regulator 2 preproprotein
NCBI Official Synonym Full Names	chloride channel accessory 2
NCBI Official Symbol	CLCA2
NCBI Official Synonym Symbols	CACC; CACC3; CLCRG2; CaCC-3
UniProt Protein Name	Calcium-activated chloride channel regulator 2
UniProt Synonym Protein Names	Calcium-activated chloride channel family member 2; hCLCA2; Calcium-activated chloride channel protein 3
Protein Family	Calcium-activated chloride channel regulator
UniProt Gene Name	CLCA2
UniProt Synonym Gene Names	CACC3; hCLCA2; CaCC-3; hCaCC-3
UniProt Entry Name	CLCA2_HUMAN
NCBI Protein Information	calcium-activated chloride channel regulator 2

NCBI Summary for CLCA2	This gene encodes a member of the calcium-activated chloride channel regulator (CLCR) family of proteins. Members of this family regulate the transport of chloride across the plasma membrane. The encoded protein is autoproteolytically processed to generate N- and C- terminal fragments. Expression of this gene is upregulated by the tumor suppressor protein p53 in response to DNA damage. In breast cancer, expression of this gene is downregulated and the encoded protein may inhibit migration and invasion while promoting mesenchymal-to-epithelial transition in cancer cell lines. [provided by RefSeq, Sep 2016]
UniProt Comments for CLCA2	Function: Plays a role in modulating chloride current across the plasma membrane in a calcium-dependent manner, and cell adhesion. Involved in basal cell adhesion and/or stratification of squamous epithelia. May act as a tumor suppressor in breast and colorectal cancer. Plays a key role for cell adhesion in the beginning stages of lung metastasis via the binding to ITGB4. Ref.7 Ref.8 Ref.9 Ref.11 Ref.12 Subcellular location: Cell membrane; Single-pass type I membrane protein. Basal cell membrane; Single-pass type I membrane protein. Cell junction Ref.1 Ref.10 Ref.11 Ref.13. Calcium-activated chloride channel regulator 2, 109 kDa form: Secreted. Note: Remains associated to the 35 kDa form until an unidentified event triggers the release. Ref.1 Ref.10 Ref.11 Ref.13 Tissue specificity: Expressed in cornea, skin, vagina, esophagus, and larynx (at protein level). Expressed in trachea and mammary gland. Weakly expressed in testis and kidney. Highly expressed in corneal epithelium, colon and trachea. Moderately expressed in brain, urogenital organs, bladder, uterus and prostate. Highly expressed in tissues containing stratified epithelium including cornea, esophagus, larynx, skin and vagina than those tissues which contain only epithelial monolayers. Expressed in normal breast epithelium but not in breast cancer. Highly expressed during epithelial stratification. Expressed in endothelial cells of lung. Expressed selectively in endothelia of small pulmonary arteries, arterioles, and subpleural and interlobular venules. Ref.1 Ref.2 Ref.3 Ref.7 Ref.9 Ref.10 Ref.11 Ref.12 Induction: Significantly down-regulated in breast and colorectal cancer. Ref.7 Ref.8 Post-translational modification: The 141 kDa mature form is shedded, producing a 109 kDa form and a 35 kDa form.N-glycosylated. Ref.1 Ref.13 Sequence similarities: Belongs to the CLCR family.Contains 1 VWFA domain.
Research Articles on CLCA2	**1.** identified a new molecular mechanism to explain PCa and MeS link based on CLCA2 repression by CTBP1 and miR-196b-5p molecules that might act as key factors in the progression onset of this disease
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