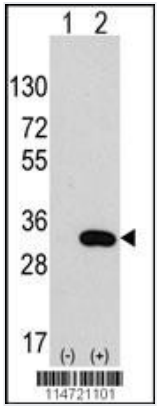
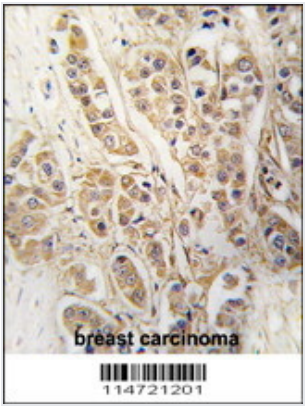
CLIC4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CLIC4, Polyclonal Antibody
Full Product Name	CLIC4 (Chloride Intracellular Channel Protein 4, Intracellular Chloride Ion Channel Protein p64H1, CLIC4) (PE)
Product Gene Name	anti-CLIC4 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human CLIC4.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	30.9 kDa (273aa) confirmed by MALDI-TOF
OMIM	606536
3D Structure	ModBase 3D Structure for Q9Y696
Immunogen	Recombinant human CLIC4 protein.
Conjugate	PE
Note	Preservative Free
Product Categories/Family for anti-CLIC4 antibody	Antibodies; Ion Channel
Applications Tested/Suitable for anti-CLIC4 antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-CLIC4 antibody	IHC: 1:10-1:50 ELISA: 1:1,000 WB: 1:50-1:100 Applications are based on unconjugated antibody.
Related Product Information for anti-CLIC4 antibody	MBS6469449 is an antibody targeting CLIC4. Also known as CLIC4 (Chloride Intracellular Channel Protein 4, Intracellular Chloride Ion Channel Protein p64H1, CLIC4) (PE). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-CLIC4 antibody	1. Singh, H., FEBS J. 274(24), 6306-6316 (2007). 2. Suh, K.S., J. Cell. Sci. 120(PT 15), 2631-2640 (2007). 3. Suh, K.S., Clin. Cancer Res. 13(1), 121-131 (2007).
Other Notes	Small volumes of anti-CLIC4 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.



Western Blot (WB) of anti-CLIC4 antibody
Western blot analysis of CLIC4 (arrow) using rabbit polyclonal CLIC4 Antibody.293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the CLIC4 gene (Lane 2) (Origene Technologies).



Immunohistochemistry (IHC) of anti-CLIC4 antibody
Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with CLIC4 antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CLIC4. It may not necessarily be applicable to this product.

NCBI GI #	7330335
NCBI GeneID	25932
NCBI Accession #	NP_039234
UniProt Primary Accession #	Q9Y696
UniProt Secondary Accession #	Q9UFW9; Q9UQJ6
UniProt Related Accession #	Q9Y696
GenBank Nucleotide #	NM_013943.2
NCBI Official Full Name	chloride intracellular channel protein 4
NCBI Official Synonym Full Names	chloride intracellular channel 4
NCBI Official Symbol	CLIC4
NCBI Official Synonym Symbols	H1; huH1; p64H1; CLIC4L; MTCLIC
UniProt Protein Name	Chloride intracellular channel protein 4
UniProt Synonym Protein Names	Intracellular chloride ion channel protein p64H1
Protein Family	Chloride intracellular channel protein
UniProt Gene Name	CLIC4
UniProt Entry Name	CLIC4_HUMAN
NCBI Protein Information	chloride intracellular channel protein 4
NCBI Summary for CLIC4	Chloride channels are a diverse group of proteins that regulate fundamental cellular processes including stabilization of cell membrane potential, transepithelial transport, maintenance of intracellular pH, and regulation of cell volume. Chloride intracellular channel 4 (CLIC4) protein, encoded by the CLIC4 gene, is a member of the p64 family; the gene is expressed in many tissues and exhibits a intracellular vesicular pattern in Panc-1 cells (pancreatic cancer cells). [provided by RefSeq, Jul 2008]

UniProt Comments for CLIC4	CLIC4: Can insert into membranes and form poorly selective ion channels that may also transport chloride ions. Channel activity depends on the pH. Membrane insertion seems to be redox-regulated and may occur only under oxydizing conditions. Promotes cell- surface expression of HRH3. Has alternate cellular functions like a potential role in angiogenesis or in maintaining apical- basolateral membrane polarity during mitosis and cytokinesis. Could also promote endothelial cell proliferation and regulate endothelial morphogenesis (tubulogenesis). Belongs to the chloride channel CLIC family. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 1p36.11 Cellular Component: centrosome; cell surface; nuclear matrix; microvillus; cytoplasmic vesicle membrane; mitochondrion; intercellular junction; cytosol; actin cytoskeleton; microtubule cytoskeleton; perinuclear region of cytoplasm; apical part of cell; cytoplasm; plasma membrane; midbody; intracellular Molecular Function: chloride channel activity; protein binding; voltage-gated ion channel activity Biological Process: keratinocyte differentiation; vacuolar acidification; fertilization; branching morphogenesis of a tube; apoptosis; multicellular organism growth; chloride transport; establishment and/or maintenance of apical/basal cell polarity; angiogenesis; endothelial cell morphogenesis; cell differentiation; negative regulation of cell migration; regulation of cytoskeleton organization and biogenesis
Research Articles on CLIC4	**1.** CLIC4 and Ihh could serve as biological markers for the progression, metastasis and/or invasiveness of pancreatic ductal adenocarcinoma.
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