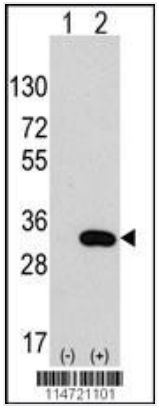
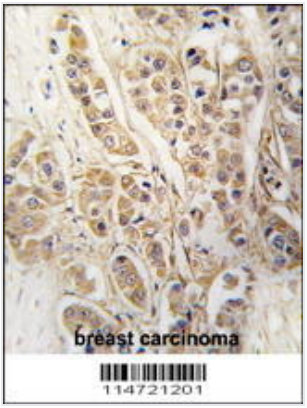
CLIC4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CLIC4, Polyclonal Antibody
Full Product Name	CLIC4 (Chloride Intracellular Channel Protein 4, Intracellular Chloride Ion Channel Protein p64H1, CLIC4) (AP)
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 Alkaline Phosphatase.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human CLIC4.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and 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	AP
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	MBS6469439 is an antibody targeting CLIC4. Also known as CLIC4 (Chloride Intracellular Channel Protein 4, Intracellular Chloride Ion Channel Protein p64H1, CLIC4) (AP). 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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