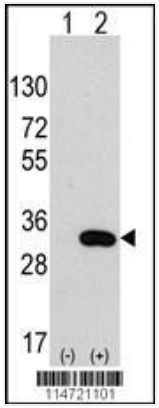
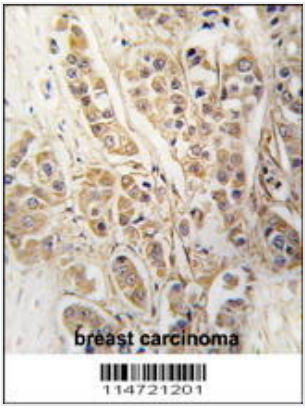
CLIC4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CLIC4, Polyclonal Antibody
Full Product Name	CLIC4 (Chloride Intracellular Channel Protein 4, Intracellular Chloride Ion Channel Protein p64H1, CLIC4) (MaxLight 650)
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 MaxLight650.
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: MaxLight650 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	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-CLIC4 antibody	Antibodies; Ion Channel
Applications Tested/Suitable for anti-CLIC4 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-CLIC4 antibody	IHC: 1:10-1:50 FLISA: 1:1,000 WB: 1:50-1:100 Applications are based on unconjugated antibody.
Related Product Information for anti-CLIC4 antibody	MBS6469447 is an antibody targeting CLIC4. Also known as CLIC4 (Chloride Intracellular Channel Protein 4, Intracellular Chloride Ion Channel Protein p64H1, CLIC4) (MaxLight 650). 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.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/clic4/6469447