

CLIC4 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7564a

Specification

CLIC4 Antibody - Product Information

Application	WB, IHC-P,E
Primary Accession	O9Y696
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	28772

CLIC4 Antibody - Additional Information

Gene ID 25932

Other Names

Chloride intracellular channel protein 4, Intracellular chloride ion channel protein p64H1, CLIC4

Target/Specificity

This CLIC4 antibody is generated from rabbits immunized with recombinant human CLIC4 protein.

Dilution

WB~~1:1000
IHC-P~~1:10~50

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

CLIC4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

CLIC4 Antibody - Protein Information

Name CLIC4

Function 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).

Cellular Location

Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasmic vesicle membrane; Single-pass membrane protein. Nucleus. Cell membrane; Single-pass membrane protein. Mitochondrion {ECO:0000250|UniProtKB:Q9Z0W7}. Cell junction. Note=Colocalized with AKAP9 at the centrosome and midbody. Exists both as soluble cytoplasmic protein and as membrane protein with probably a single transmembrane domain Present in an intracellular vesicular compartment that likely represent trans-Golgi network vesicles. Might not be present in the nucleus of cardiac cells. {ECO:0000250|UniProtKB:Q9Z0W7, ECO:0000269|PubMed:14569596}

Tissue Location

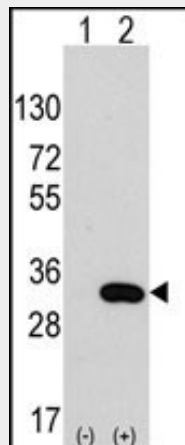
Detected in epithelial cells from colon, esophagus and kidney (at protein level). Expression is prominent in heart, kidney, placenta and skeletal muscle.

CLIC4 Antibody - Protocols

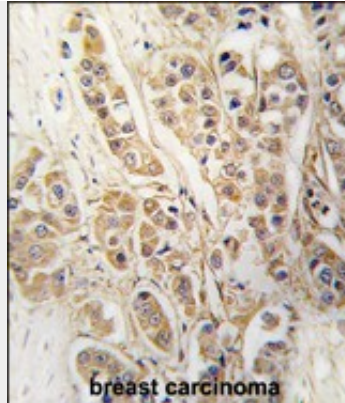
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CLIC4 Antibody - Images



Western blot analysis of CLIC4 (arrow) using rabbit polyclonal CLIC4 Antibody (Cat.#AP7564a).293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the CLIC4 gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with CLIC4 antibody (Cat.#AP7564a), 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.

CLIC4 Antibody - Background

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).

CLIC4 Antibody - References

Singh,H.,FEBS J. 274 (24), 6306-6316 (2007)
Suh,K.S.,J. Cell. Sci. 120 (PT 15), 2631-2640 (2007)
Suh,K.S.,Clin. Cancer Res. 13 (1), 121-131 (2007)

CLIC4 Antibody - Citations

- [Association of chloride intracellular channel 4 and Indian hedgehog proteins with survival of patients with pancreatic ductal adenocarcinoma.](#)