

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

---

**CLIC4 Antibody - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">Q9Y696</a>
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

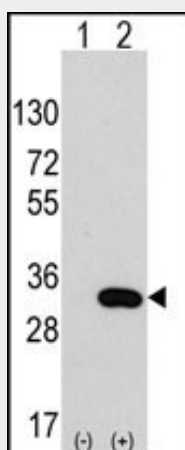
Detected in epithelial cells from colon, esophagus and kidney (at protein level). Expression is prominent in heart, kidney, placenta and skeletal muscle.

### CLIC4 Antibody - Protocols

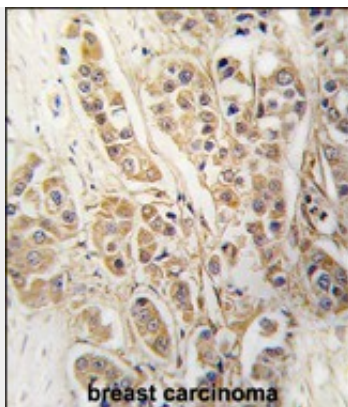
Provided below are standard protocols that you may find useful for product applications.

- [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.](#)