

**CLIC4 Antibody Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7564a****Specification**

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**CLIC4 Antibody Blocking Peptide - Product Information**Primary Accession [Q9Y696](#)**CLIC4 Antibody Blocking Peptide - Additional Information****Gene ID** 25932**Other Names**

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

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP7564a](/product/products/AP7564a) was selected from the region of human CLIC4. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**CLIC4 Antibody Blocking Peptide - 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 Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**CLIC4 Antibody Blocking Peptide - Images****CLIC4 Antibody Blocking Peptide - 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 Blocking Peptide - 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)