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CLIC1 Antibody Blocking Peptide
Synthetic peptide
Catalog # BP7589a

Specification

CLIC1 Antibody Blocking Peptide - Product Information

Primary Accession	O00299
Other Accession	Q5SRT3

CLIC1 Antibody Blocking Peptide - Additional Information

Gene ID 1192

Other Names
Chloride intracellular channel protein 1, Chloride channel ABP, Nuclear chloride ion channel 27, NCC27, Regulatory nuclear chloride ion channel protein, hRNCC, CLIC1, G6, NCC27

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7589a was selected from the region of human CLIC1. 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.

CLIC1 Antibody Blocking Peptide - Protein Information

Name CLIC1

Synonyms G6, NCC27

Function
Can insert into membranes and form chloride ion channels. Channel activity depends on the pH. Membrane insertion seems to be redox-regulated and may occur only under oxydizing conditions. Involved in regulation of the cell cycle.

Cellular Location
Nucleus. Nucleus membrane; Single-pass membrane protein. Cytoplasm. Cell membrane; Single-pass membrane protein. Endoplasmic reticulum {ECO:0000250|UniProtKB:Q6MG61}. Note=Mostly in the nucleus including in the nuclear membrane (PubMed:9139710,

PubMed:12681486). Small amount in the cytoplasm and the plasma membrane (PubMed:9139710). Exists both as soluble cytoplasmic protein and as membrane protein with probably a single transmembrane domain (PubMed:11940526, PubMed:11551966, PubMed:14613939, PubMed:12681486, PubMed:9139710). Might not be present in the nucleus of cardiac cells (By similarity) {ECO:0000250|UniProtKB:Q6MG61, ECO:0000269|PubMed:11551966, ECO:0000269|PubMed:11940526, ECO:0000269|PubMed:12681486, ECO:0000269|PubMed:14613939, ECO:0000269|PubMed:9139710}

Tissue Location
Expression is prominent in heart, placenta, liver, kidney and pancreas.

CLIC1 Antibody Blocking Peptide - Protocols

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

- Blocking Peptides

CLIC1 Antibody Blocking Peptide - Images

CLIC1 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 1 is a member of the p64 family; the protein localizes principally to the cell nucleus and exhibits both nuclear and plasma membrane chloride ion channel activity.

CLIC1 Antibody Blocking Peptide - References

Singh,H., FEBS J. 274 (24), 6306-6316 (2007)Ulmasov,B., (er) BMC Cell Biol. 8, 8 (2007)Edwards,J.C., J. Membr. Biol. 213 (1), 39-46 (2006)