

CLIC4 Antibody (aa1-50) Rabbit Polyclonal Antibody Catalog # ALS15120

Specification

CLIC4 Antibody (aa1-50) - Product Information

Application Primary Accession Reactivity Host Clonality Calculated MW Dilution WB, IHC-P, E <u>O9Y696</u> Human, Mouse, Rat Rabbit Polyclonal 29kDa KDa WB~~1:1000 IHC-P~~N/A E~~N/A

CLIC4 Antibody (aa1-50) - Additional Information

Gene ID 25932

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

Target/Specificity CLIC4 Antibody detects endogenous levels of total CLIC4 protein.

Reconstitution & Storage Store at -20°C for up to one year.

Precautions CLIC4 Antibody (aa1-50) is for research use only and not for use in diagnostic or therapeutic procedures.

CLIC4 Antibody (aa1-50) - Protein Information

Name CLIC4 {ECO:0000303|PubMed:12163372, ECO:0000312|HGNC:HGNC:13518}

Function

In the soluble state, catalyzes glutaredoxin-like thiol disulfide exchange reactions with reduced glutathione as electron donor (PubMed:25581026, PubMed:37759794). Can insert into membranes and form voltage-dependent multi-ion conductive channels. Membrane insertion seems to be redox-regulated and may occur only under oxidizing conditions (By similarity) (PubMed:16176272). 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). Promotes cell-surface



expression of HRH3.

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. Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q9Z0W7}; Single-pass membrane protein {ECO:0000250|UniProtKB:Q9Z0W7}. 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.

Volume 50 μl

CLIC4 Antibody (aa1-50) - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- <u>Dot Blot</u>
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

CLIC4 Antibody (aa1-50) - Images



Western blot of extracts from HT-29 cells, using CLIC4 Antibody.





Anti-CLIC4 antibody IHC of human spleen. CLIC4 Antibody (aa1-50) - Background

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).

CLIC4 Antibody (aa1-50) - References

Edwards J.C., et al.Am. J. Physiol. 276:F398-F408(1999). Chuang J.Z., et al.J. Neurosci. 19:2919-2928(1999). Wiemann S., et al.Genome Res. 11:422-435(2001). Bienvenut W.V., et al.Submitted (FEB-2006) to UniProtKB. Berryman M., et al.Mol. Biol. Cell 11:1509-1521(2000).