

CLIC4 Antibody
Mouse Monoclonal Antibody (Mab)
Catalog # AM1125a

Specification

CLIC4 Antibody - Product Information

Application	WB, IHC-P,E
Primary Accession	Q9Y696
Other Accession	NP_039234
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1κ

CLIC4 Antibody - Additional Information

Gene ID 25932

Other Names

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

Target/Specificity

Purified His-tagged CLIC4 protein was used
to produce this monoclonal antibody.

Dilution

WB~~1:2000
IHC-P~~1:50~100

Format

Mouse monoclonal antibody supplied in
crude ascites with 0.09% (W/V) sodium
azide.

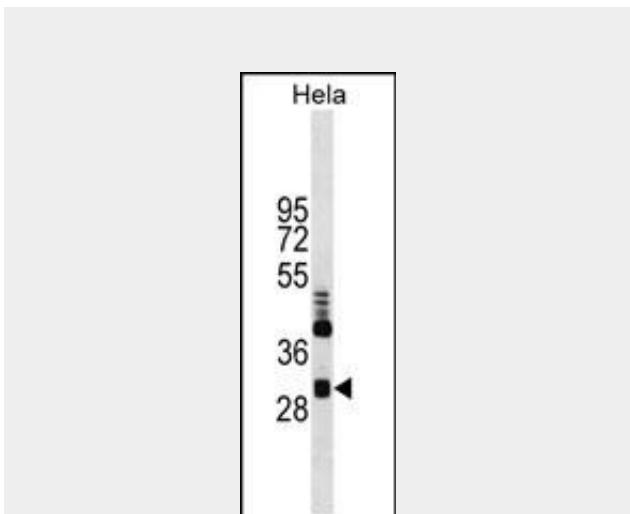
Storage

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.

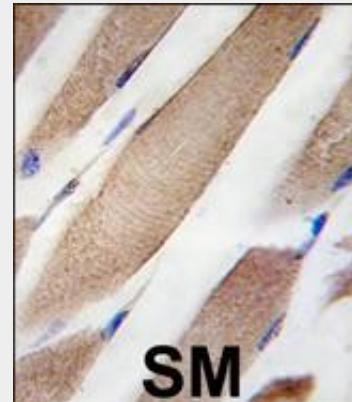
Precautions

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

CLIC4 Antibody - Protein Information



Western blot analysis of anti-CLIC4 Monoclonal Antibody (Cat.#AM1125a) in HeLa cell line lysates. CLIC4 (arrow) was detected using the ascites Mab.



Formalin-fixed and paraffin-embedded human skeletal muscle tissue reacted with CLIC4 Antibody (Cat.#AM1125a), 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

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 matrix. Cell membrane; Single-pass membrane protein Mitochondrion. 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

Tissue Location

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

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

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614. Mutation detection in candidate genes for benign familial infantile seizures on a novel locus. Li N, et al. Int J Neurosci, 2010 Mar. PMID 20374090. Spatiotemporal regulation of chloride intracellular channel protein CLIC4 by RhoA. Ponsioen B, et al. Mol Biol Cell, 2009 Nov. PMID 19776349. S100A4 and bone morphogenetic protein-2 codependently induce vascular smooth muscle cell migration via phospho-extracellular signal-regulated kinase and chloride intracellular channel 4. Spiekerkoetter E, et al. Circ Res, 2009 Sep 25. PMID 19713532. CLIC4 mediates TGF-beta1-induced fibroblast-to-myofibroblast transdifferentiation in ovarian cancer. Yao Q, et al. Oncol Rep, 2009 Sep. PMID 19639201.

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](#)