

KD-Validated Anti-CLIC4 Rabbit Polyclonal Antibody

Rabbit polyclonal antibody

Catalog # AGI2147

Product Information

Application	WB
Primary Accession	Q9Y696
Reactivity	Rat, Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	28772
Gene Name	CLIC4
Aliases	CLIC4; Chloride Intracellular Channel 4; CLIC4L; P64H1; HuH1; H1; Intracellular Chloride Ion Channel Protein P64H1; Chloride Intracellular Channel Protein 4; Glutaredoxin-Like Oxidoreductase CLIC4; DKFZP566G223; Epididymis Secretory Sperm Binding Protein; Chloride Intracellular Channel 4 Like; EC 1.8.-.-; MTCLIC
Immunogen	A synthesized peptide derived from human CLIC4

Additional Information

Gene ID	25932
Other Names	Chloride intracellular channel protein 4, Glutaredoxin-like oxidoreductase CLIC4, 1.8.-.-, Intracellular chloride ion channel protein p64H1, CLIC4 {ECO:0000303 PubMed:12163372, ECO:0000312 HGNC:HGNC:13518}

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.

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