

KD-Validated Anti-CLIC4 Rabbit Polyclonal Antibody

Rabbit polyclonal antibody Catalog # AGI2147

Specification

KD-Validated Anti-CLIC4 Rabbit Polyclonal Antibody - Product Information

Application WB
Primary Accession Q9Y696

Reactivity Rat, Human, Mouse

Clonality Polyclonal Isotype Rabbit IgG

Calculated MW Predicted, 29 kDa, observed, 28 kDa KDa

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

KD-Validated Anti-CLIC4 Rabbit Polyclonal Antibody - 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}

KD-Validated Anti-CLIC4 Rabbit Polyclonal Antibody - 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

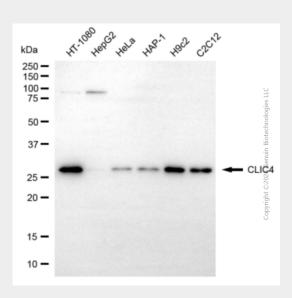
Detected in epithelial cells from colon, esophagus and kidney (at protein level). Expression is prominent in heart, kidney, placenta and skeletal muscle.

KD-Validated Anti-CLIC4 Rabbit Polyclonal Antibody - Protocols

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

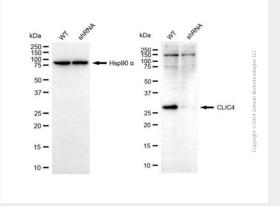
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-CLIC4 Rabbit Polyclonal Antibody - Images



Western blotting analysis using anti-CLIC4 antibody (Cat#AGI2147). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-CLIC4 antibody (Cat#AGI2147, 1:2,500) and HRP-conjugated goat anti-rabbit secondary antibody respectively.





Western blotting analysis using anti-CLIC4 antibody (Cat #AGI2147). CLIC4 expression in wild-type (WT) and CLIC4 shRNA knockdown (KD) HeLa cells with 30 μ g of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-CLIC4 antibody (Cat #AGI2147, 1:1,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.