

## Product datasheet for **TA328642**

### CLIC4 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	WB: 1:200-1:2000; FC: 1:50-1:600
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide (C)NGLKEEDKEPLIE, corresponding to amino acid residues 8 - 20 of human CLIC4.Â Intracellular, N-terminus.
Formulation:	Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to CoA along with shipment for actual concentration). Buffer before lyophilization: Phosphate buffered saline (PBS), pH 7.4, 1% BSA, 0.05% NaN3.
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
Purification:	Affinity purified on immobilized antigen.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	chloride intracellular channel 4
Database Link:	<a href="#">NP_039234</a> <a href="#">Entrez Gene 29876 Mouse</a> <a href="#">Entrez Gene 83718 Rat</a> <a href="#">Entrez Gene 25932 Human</a> <a href="#">Q9Y696</a>



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**Background:**

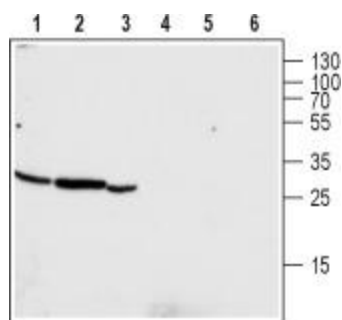
Chloride intracellular channel (CLIC) is a family of proteins encoded by six different genes (CLIC1-6). The localization of the various CLIC channels remains elusive and controversial since they can be either found in a soluble form in the cytoplasm or as integral membrane proteins (in intracellular compartments such as the nuclear membrane or the endoplasmic reticulum for example, or associate to the plasma membrane) via their single transmembrane domain. When membrane associated, CLIC channels indeed function as ion channels (enabling the passage of Cl<sup>-</sup> ions). Non-channel functions are also attributed to CLICs and include cell cycle regulation, cell differentiation, and apoptosis. These different roles depend whether CLICs are membrane bound or cytosolic. For instance, CLIC4 is involved in keratinocyte differentiation in a TGF $\beta$ -dependent manner, in such a way that TGF $\beta$  stimulation induces the expression and nuclear localization of CLIC4 and its subsequent interaction with transcription factors. CLIC4 is also required for growth arrest and apoptosis under stress. CLIC4 distribution is rather ubiquitous but shows higher expression level in skin, kidney, brain and testes.

**Synonyms:**

CLIC4L; H1; huH1; MTCLIC; p64H1

**Protein Families:**

Druggable Genome, Ion Channels: Other

**Product images:**


Western blot analysis of human pancreatic carcinoma PANC-1 (lanes 1 and 4), mouse kidney (lanes 2 and 5) and rat kidney (lanes 3 and 6) lysates: 1- 3. Anti-CLIC4 antibody, (1:200). 4- 6. Anti-CLIC4 antibody, preincubated with the control peptide antigen.



Expression of CLIC4 in human pancreatic carcinoma PANC-1 cells. Immunocytochemical staining of fixed and permeabilized human pancreatic carcinoma PANC-1 cells. A. Cells were stained with Anti-CLIC4 antibody, (1:200), followed by goat anti-rabbit-AlexaFluor-594 secondary antibody (red). B. Cell nuclei were visualized using Hoechst 33342 (blue). C. Live image of the cells.