

Product datasheet for **TA328661**

LGICZ1 (ZACN) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	FC, IF, WB
Recommended Dilution:	WB: 1:200-1:2000; FC: 1:50-1:600
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide CNFELLHFPRDHSN, corresponding to amino acid residues 157-170 of human zinc-activated channel (ZAC). Extracellular, 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% NaN ₃ .
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:	zinc activated ion channel
Database Link:	NP_851321 Entrez Gene 353174 Human Q401N2



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Background:

Over forty homologous proteins belong to the superfamily of ligand-gated ion channels. These members are broken down into different subfamilies, for example: acetylcholine, serotonin and glycine receptors. A new member has been added to this superfamily – ZAC (zinc-activated channel) which is expressed in human and dog but not in rodents. Like all other ligand-gated ion channels, ZAC has four transmembrane domains and extracellular N- and C-termini. As its name states, the channel is activated by high concentrations of zinc. ZAC mRNA was found to be expressed in placenta, spinal cord, stomach, and fetal brain. In another study, ZAC was identified using a computer-assisted program and was detected in similar areas (including pancreas and kidney), but also displayed minor discrepancies. Being that the channel is expressed in human and dog, deciphering its cellular/physiological functions will be challenging.

Synonyms:

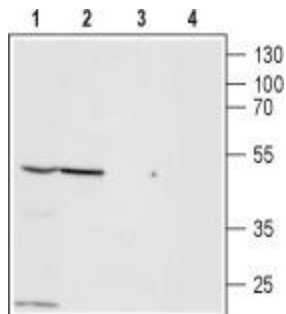
L2; LGICZ; LGICZ1; ZAC; ZAC1

Note:

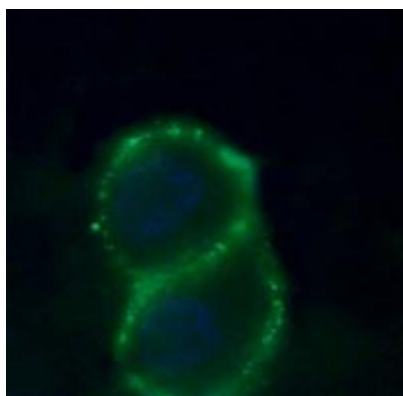
This antibody was tested in live cell imaging. Please see IF/ICC data for detail.

Protein Families:

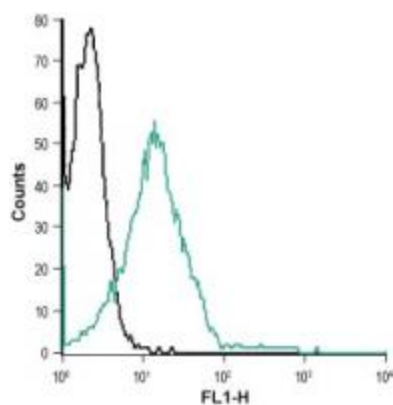
Druggable Genome, Ion Channels: Other, Transmembrane

Product images:

Western blot analysis of Panc-1 (lanes 1 and 3) and Jurkat (lanes 2 and 4) cell lysates: 1, 2. Anti-Zinc-Activated Channel (ZAC) (extracellular) antibody, (1:200). 3, 4. Anti-Zinc-Activated Channel (ZAC) (extracellular) antibody, preincubated with the control peptide antigen.



Expression of Zinc-Activated Channel (ZAC) in human (PANC-1) cells. Immunocytochemical staining of human intact living epithelioid carcinoma (PANC-1) cells. Extracellular staining (green) of cells with Anti-Zinc-Activated Channel (ZAC) (extracellular) antibody, (1:25) followed by goat anti-rabbit-AlexaFluor-488 secondary antibody. DAPI is used as the counterstain (blue).



Indirect flow cytometry analysis of Jurkat living cells: black line: Unstained cells, green line: Cells + Anti-Zinc-Activated Channel (ZAC) (extracellular) antibody, (5-10 $\mu\text{g}/1 \times 10^6$ cells).