

Product datasheet for TA328961

Kcnn4 Rabbit Polyclonal Antibody

Product data:

OriGene Technologies, Inc.

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Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide RQVRLKHRKLREQV(C), corresponding to amino acid residues 350-363 of rat KCa3.1 Intracellular, C-terminal part.
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, 0.025% 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:	potassium calcium-activated channel subfamily N member 4
Database Link:	<u>NP_075410</u> Entrez Gene 3783 HumanEntrez Gene 16534 MouseEntrez Gene 65206 Rat



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CRIGENE Kcnn4 Rabbit Polyclonal Antibody – TA328961

Background:KCa3.1 is part of the Ca2+ activated K+ channels family that share the characteristic of being
activated by intracellular Ca2+. The channel has an intermediate conductance, is voltage
insensitive and is activated by Ca2+ in the submicromolar range. The channel has a similar
topology to that of KV channels, that is six transmembrane domains and intracellular N- and
C-termini. KCa3.1 is widely expressed in epithelial, endothelial and cells of hematopoietic
origin. In erythrocytes (red blood cells) it has been identified as the molecular correlate of the
so-called Gardos channel. The functional role of the channel is to set the cell membrane
potential at negative values so as to aid in the electrochemical transport of other ions such as
Cl- and Ca2+. Indeed, KCa3.1 has a key role in sustaining the Ca2+ influx in activated T
lymphocytes and in regulating Cl- secretion from colon epithelium. Therefore, specific
blockers of the KCa3.1 channel have been proposed for the treatment of several diseases
including autoimmune diseases, secretory diarrhea and sickle cell anemia.

Synonyms:

hIKCa1; hKCa4; hSK4; IK1; IKCA1; KCa3.1; KCA4; SK4

Product images:



Western blot analysis of HEK-293-KCa3.1 (1, 2) and K562 (3, 4) cells: 1, 3. Anti-KCa3.1 (SK4, IKCa1) antibody, (1:200). 2, 4. Anti-KCa3.1 (SK4, IKCa1) antibody, preincubated with the control peptide antigen.

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