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KCNG4 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI10845

Product Information

Application	WB
Primary Accession	Q8TDN1
Other Accession	NM_172347, NP_758857
Reactivity	Human
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	58979

Additional Information

Gene ID	93107
Alias Symbol	KV6.3, KV6.4, MGC129609, MGC4558
Other Names	Potassium voltage-gated channel subfamily G member 4, Voltage-gated potassium channel subunit Kv6.4, KCNG4, KCNG3
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-KCNG4 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	KCNG4 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	KCNG4 (HGNC:19697)
Synonyms	KCNG3
Function	Regulatory subunit of the voltage-gated potassium (Kv) channel which, when coassembled with KCNB1, modulates the kinetics parameters of the heterotetrameric channel namely the time course of activation, deactivation and inactivation and on the voltage-dependence of activation (PubMed:12060745, PubMed:19074135). Potassium channel subunit that does not form functional channels by itself (Probable) (PubMed:12060745). Reduces the deactivation rate (PubMed:12060745, PubMed:19074135). Modulates the threshold for activation by shifting by approximately 20 mV in

	hyperpolarizing direction (PubMed:12060745). Markedly changes the inactivation by shifting the voltage dependence of inactivation by approximately 40 mV in hyperpolarizing direction (PubMed:12060745). Acceleratee activation and enhances the time course of activation (PubMed:12060745).
Cellular Location	Cell membrane; Multi-pass membrane protein. Note=Has to be associated with KCNB1 or possibly another partner to get inserted in the plasma membrane (PubMed:19074135). Colocalizes with KCNB1 at the plasma membrane (PubMed:19074135). Retains in the endoplasmic reticulum in the absence of KCNB1 (PubMed:19074135).
Tissue Location	Highly expressed in brain, and at lower levels in liver, small intestine and colon.

References

Gutman,G.A., (2005) Pharmacol. Rev. 57 (4), 473-508 Reconstitution and Storage:For short term use, store at 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.

Images

WB Suggested Anti-KCNG4 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:62500
Positive Control: 721_B cell lysate