



KCNS1 Polyclonal Antibody

Catalog No	YP-Ab-05959
Isotype	IgG
Reactivity	Human;Rat;Mouse
Applications	WB;ELISA
Gene Name	KCNS1
Immunogen	Synthesized peptide derived from human protein . at AA range: 470-550
Specificity	KCNS1 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	KCNS1;KV9.1;Potassium voltage-gated channel subfamily S member 1 (Delayed-rectifier K(+)) channel alpha subunit 1) (Voltage-gated potassium channel subunit Kv9.1)
Observed Band	57kD
Calculated Molecular Weight	57kD
Cell Pathway	Cell membrane ; Multi-pass membrane protein . May not reach the plasma membrane but remain in an intracellular compartment in the absence of KCNB1 or KCNB2 (PubMed:10484328). .
Tissue Specificity	Detected in all tissues tested with the exception of skeletal muscle. Highly expressed in adult and fetal brain, fetal kidney and lung, and adult prostate and testis (PubMed:10484328).
Function	domain:The segment S4 is probably the voltage-sensor and is characterized by a series of positively charged amino acids at every third position., function:Potassium channel subunit. Modulates channel activity and reduces the ion flow.,similarity:Belongs to the potassium channel family. S subfamily., subcellular location:May not reach the plasma membrane but remain in an intracellular compartment in the absence of KCNB1.,subunit:Heteromultimer with KCNB1 and with KCNB2. Does not form homomultimers. Might also bind to



other channel proteins.,tissue specificity:Detected in all tissues tested with the exception of skeletal muscle. Highly expressed in adult and fetal brain, fetal kidney and lung, and adult prostate and testis.,

Background

Voltage-gated potassium channels form the largest and most diversified class of ion channels and are present in both excitable and nonexcitable cells. Their main functions are associated with the regulation of the resting membrane potential and the control of the shape and frequency of action potentials. The alpha subunits are of 2 types: those that are functional by themselves and those that are electrically silent but capable of modulating the activity of specific functional alpha subunits. The protein encoded by this gene is not functional by itself but can form heteromultimers with member 1 and with member 2 (and possibly other members) of the Shab-related subfamily of potassium voltage-gated channel proteins. This gene belongs to the S subfamily of the potassium channel family. [provided by RefSeq, Jul 2008],

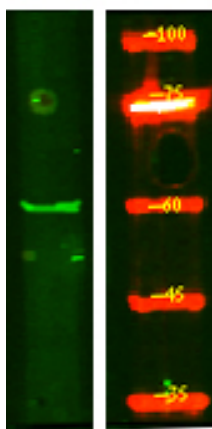
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of HEK293 lysis, using primary antibody at 1:1000 dilution. Secondary antibody(catalog#:RS23920) was diluted at 1:10000