Datasheet for ABIN6284347

anti-Kv2.1/KCNB1 antibody (AA 510-590)

Go to Product page

Overview

Quantity:	50 µL
Target:	Kv2.1/KCNB1 (KCNB1)
Binding Specificity:	AA 510-590
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Kv2.1/KCNB1 antibody is un-conjugated
Application:	ELISA, Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Kv2.1 is a protein encoded by the KCNB1 gene which is approximately 95,8 kDa. Kv2.1 is localised to the cell membrane. It is involved in integration of energy metabolism, potassium channels and aquaporin-mediated transport. It contributes to the regulation of the action potential (AP) repolarization, duration and frequency of repetitive AP firing in neurons, muscle cells and endocrine cells and also plays a role in homeostatic attenuation of electrical excitability throughout the brain. Kv2.1 is expressed in the brain, heart, lung, liver, colon, kidney and adrenal gland. Mutations in the KCNB1 gene may result in epileptic encephalopathy. STJ93873 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. This polyclonal antibody detects endogenous levels of Kv2.1 protein.
Immunogen:	Synthesized peptide derived from human Kv2.1 around the non-phosphorylation site of S567.
Isotype:	IgG

Product Details

Specificity:	Kv2.1 Polyclonal Antibody detects endogenous levels of Kv2.1 protein.
Characteristics:	Rabbit polyclonal to Kv2.1.
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Target Details

Target:	Kv2.1/KCNB1 (KCNB1)
Alternative Name:	Kv2.1 (KCNB1 Products)
Molecular Weight:	90 kDa
Gene ID:	3745
UniProt:	Q14721
Pathways:	Synaptic Membrane

Application Details

Application Notes:	IHC 1:100-1:300 IF 1:200-1:1000 ELISA 1:20000
Comment:	Expressed in neocortical pyramidal cells . Expressed in pancreatic beta cells (at protein level) . Expressed in brain, heart, lung, liver, colon, kidney and adrenal gland . Expressed in the cortex, amygdala, cerebellum, pons, thalamus, hypothalamus, hippocampus and substantia nigra .
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Liquid in PBS containing 50 % glycerol, 0.5 % BSA and 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

Handling

Storage Comment:	Store at -20°C, and avoid repeat freeze-thaw cycles.