

Product datasheet for TA328937

Kcnd2 Rabbit Polyclonal Antibody

Product data:

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3000
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide (C)SNQLQSSEDEPAFVSK, corresponding to amino acid residues 454-469 of rat Kv4.2. Intracellular, C-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, 0.025% NaN3.
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
Purification:	Affinity purified on immobilized peptide.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	potassium voltage-gated channel subfamily D member 2
Database Link:	<u>NP_113918</u> <u>Entrez Gene 16508 MouseEntrez Gene 65180 Rat</u> <u>Q63881</u>



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

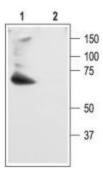
GRIGENE Kcnd2 Rabbit Polyclonal Antibody – TA328937

Background:

Kv4.2 is a voltage-dependent K+ channel that belongs to the Shal channel subfamily and includes two other members: Kv4.1 and Kv4.3.1 Kv4.2 possesses the signature structure of the voltage-dependent K+ channels: six membrane-spanning domains with intracellular N and C termini. As with other members of the voltage-gated K+ channel superfamily, the functional channel is a tetramer that can be composed of more than one member of the Shal subfamily, i.e. heterotetramers of Kv4.1 and Kv4.3.The Kv4 channels are characterized by activation at subthreshold membrane potentials, inactivate rapidly and recover from inactivation quickly compared with other voltage-dependent K+ channels. This type of current is known as transient A-type K+ currents. For example, depolarization-activated K+ currents in rat neostriatal cholinergic interneurons are predominantly of the A-type and attributable to coexpression of Kv4.2 and Kv4.1 subunits. The biophysical properties of the Kv4.2 subunit can be modified by its association with auxiliary Ã? subunits such as the KChIP family that increase Kv4.2 current densities and accelerates both the inactivation and the recovery time. Kv4.2 is also highly expressed in the heart where together with Kv4.3 underlie the fast inactivating and recovering cardiac transient outward current Ito.

Synonyms: KIAA1044; KV4.2; MGC119702; MGC119703; RK5

Product images:



Western blot analysis of rat brain membranes: 1. Anti-KV4.2 antibody, (1:200). 2. Anti-KV4.2 antibody, preincubated with the control peptide antigen.

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US