Datasheet for ABIN7237785

anti-KCNG4 antibody (Intracellular)

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Overview

Quantity:	25 µL
Target:	KCNG4 (Kcng4)
Binding Specificity:	AA 472-486, Intracellular
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCNG4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	A Rabbit Polyclonal antibody to Kv6.4 (KCNG4)
Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)RLRRLQNTNSASERE, corresponding to amino acid residues 472 - 486 of mouse KCNG4
Isotype:	IgG
Specificity:	Intracellular, C-terminus.
Cross-Reactivity:	Mouse, Rat
Predicted Reactivity:	Rat- 14 out of 15 amino acid residues identical Unlikely to recognize human Kv64
Characteristics:	Intracellular, C-terminus
Purification:	Affinity purified on immobilized antigen.

Target Details

Target:	KCNG4 (Kcng4)
Alternative Name:	KCNG4 (Kcng4 Products)
Background:	Potassium Voltage-Gated Channel Subfamily G Member 4, Voltage-gated potassium channel subunit Kv6.4,Voltage-gated K+ (Kv) channels are potassium selective multimeric channels that change their conformation in response to changes in the membrane potential. Kv channels play a central role in the determination of cellular excitability due to their contribution to the shape, duration and frequency of action potentials. A wide range of physiological activities are regulated via KV actions including cell signaling, proliferation and migration1.Kv channels are divided into several subfamilies based in sequence homology. Members of the Kv5, Kv6, Kv8, and Kv9 subfamilies, are unable to form functional channels, even though they have the typical topology of a Kv α-subunit and have therefore been designated silent Kv (KvS) subunits. KV6.4 (also known as KCNG4) is part of the electrically silent KV6 subfamily that includes four members Kv6.1-Kv6.42. Members of the Kv6 subfamily selectively interact with members of the Kv2 subfamily, forming functional Kv2/KvS heterotetramers that possess unique biophysical and pharmacological properties 2. Heterotetramerization of KV6.4 with Kv2 results in the formation of functional channels. The stoichiometry of Kv2/Kv6 complex was recently found to be 2:2 stoichiometry with activation V1/2 of 5.7 ± 3.1 mV and inactivation V1/2 of -62.8 ± 1.6 mV3. Alternative names: Potassium Voltage-Gated Channel Subfamily G Member 4, Voltage-gated potassium channel subunit Kv6.4
Gene ID:	66733
NCBI Accession:	NM_172347
UniProt:	Q80XM3

Application Details

Application Notes:	Antigen preadsorption control: 1 µg peptide per 1 µg antibody Application Dilutions Immunohistochemistry paraffin embedded sections ihc: 1:600 Application Dilutions Western blot wb: 1:200
Comment:	Negative Control: (ABIN7236554) Blocking Peptide: (ABIN7236554)
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	0.2 mL double distilled water (DDW).
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4
Storage:	4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).