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KCNT2 Rabbit pAb

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Catalog # AP54763

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q6UVM3
Predicted	Human, Mouse, Rat, Chicken, Dog, Pig, Horse, Rabbit, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	130501
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human KCNT2
Epitope Specificity	51-150/1135
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane; Multi-pass membrane protein.
SIMILARITY	Belongs to the potassium channel family. Calcium-activated (TC 1.A.1.3) subfamily. KCa4.2/KCNT2 sub-subfamily. Contains 1 RCK N-terminal domain.
Post-translational modifications	Phosphorylated by protein kinase C. Phosphorylation of the C-terminal domain inhibits channel activity.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Voltage-gated K+ channels in the plasma membrane are important regulators of electrical signaling, controlling the repolarization and the frequency of action potentials in neurons, muscles and other excitable cells. KCNT2 is a 1,135 amino acid multi-pass transmembrane protein belonging to the potassium channel family (calcium-activated subfamily) of proteins. KCNT2 produces rapidly activating outward rectifier potassium currents in reponse to high intracellular sodium and chloride levels. Its channel activity is inhibited by ATP, inhalation anesthetics, such as isoflourane, and upon stimulation of G-protein coupled receptors, such as mAChR M1 and GluR-1. There are four isoforms of KCNT2 that are produced as a result of alternative splicing events.

Additional Information

Gene ID	343450
Other Names	Potassium channel subfamily T member 2, KNa1.2 {ECO:0000312|HGNC:HGNC:18866}, Sequence like an intermediate conductance potassium channel subunit, Sodium and chloride-activated ATP-sensitive potassium channel Slo2.1, KCNT2, SLICK {ECO:0000303|PubMed:14684870}, Slo2.1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500

	0-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	KCNT2
Synonyms	SLICK {ECO:0000303|PubMed:14684870}, Slo
Function	Sodium-activated and chloride-activated potassium channel (PubMed:14684870, PubMed:16687497, PubMed:25214519, PubMed:27682982, PubMed:29069600, PubMed:29740868). Produces rapidly activating outward rectifier K(+) currents (PubMed:14684870). Contributes to regulate neuronal excitability (PubMed:29069600).
Cellular Location	Cell membrane; Multi-pass membrane protein

Background

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