
Product Name: KCNT1 Rabbit Polyclonal Antibody**Catalog #: APRab12952**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000
Molecular Weight	140kDa

Antigen Information

Gene Name	KCNT1
Alternative Names	KCNT1; KIAA1422; Potassium channel subfamily T member 1; KCa4.1
Gene ID	57582.0
SwissProt ID	Q5JUK3
Immunogen	The antiserum was produced against synthesized peptide derived from human KCNT1. AA range:1019-1068

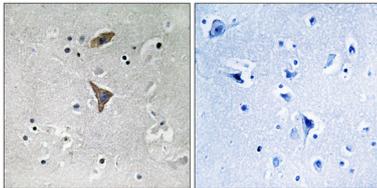
Background

Potassium channels represent the most complex class of voltage-gated ion channels from both functional and structural

standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. This gene encodes a sodium-activated potassium channel subunit which is thought to function in ion conductance and developmental signaling pathways. Mutations in this gene cause the early-onset epileptic disorders, malignant migrating partial seizures of infancy and autosomal dominant nocturnal frontal lobe epilepsy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2012],function:Outwardly rectifying potassium channel subunit that may co-assemble with other Slo-type channel subunits. Activated by high intracellular sodium or chloride levels. Activated upon stimulation of G-protein coupled receptors, such as CHRM1 and GRIA1. May be regulated by calcium in the absence of sodium ions (in vitro),,PTM:Phosphorylated by protein kinase C. Phosphorylation of the C-terminal domain increases channel activity.,similarity:Belongs to the potassium channel family. Calcium-activated subfamily.,similarity:Contains 1 RCK N-terminal domain.,subunit:Interacts with CRBN via its cytoplasmic C-terminus.,tissue specificity:Highest expression in liver, brain and spinal cord. Lowest expression in skeletal muscle.,

Research Area

Image Data



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using KCNT1 Antibody. The picture on the right is blocked with the synthesized peptide.