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Rabbit Anti-KCNG1 antibody

SL12174R

Product Name	KCNG1
Chinese Name	电压门控性钾 Channel protein 亚基 kv6.1 抗体
Alias	K13; KCNG; kH2; KV6.1; Potassium voltage gated channel subfamily G; Potassium voltage gated channel subfamily G member 1; Voltage gated potassium channel subunit Kv6.1; KCNG1_HUMAN.
Research Area	Cell biology Neurobiology Channel protein The cell membrane 受体
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse(predicted:Human,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,GuineaPig)
Applications	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	58kDa
Cellular localization	The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human KCNG1: 401-500/513 <Cytoplasmic>
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed PubMed

Voltage-gated potassium (Kv) 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 member of the potassium channel, voltage-gated, subfamily G. This gene is abundantly expressed in skeletal muscle. Multiple alternatively spliced transcript variants have been found in normal and cancerous tissues. [provided by RefSeq, Jul 2008].

Product Detail

Function:
KCNG1 is a member of the potassium channel, voltage-gated, subfamily G. Voltage-gated potassium (Kv) 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 is abundantly expressed in skeletal muscle. Alternative splicing results in at least two transcript variants encoding distinct isoforms.

Subunit:
Heterotetramer of potassium channel proteins (By similarity).

Subcellular Location:
Membrane; multi-pass membrane protein

Tissue Specificity:
Detected in brain and placenta, and at much lower levels in kidney and pancreas.

Similarity:
Belongs to the potassium channel family. G (TC 1.A.1.2) subfamily. Kv6.1/KCNG1 sub-subfamily.

SWISS:
Q9UIX4

Gene ID:
3755

Database links:

Entrez Gene: 3755 Human

Entrez Gene: 241794 Mouse

Entrez Gene: 296395 Rat

Omim: 603788 Human

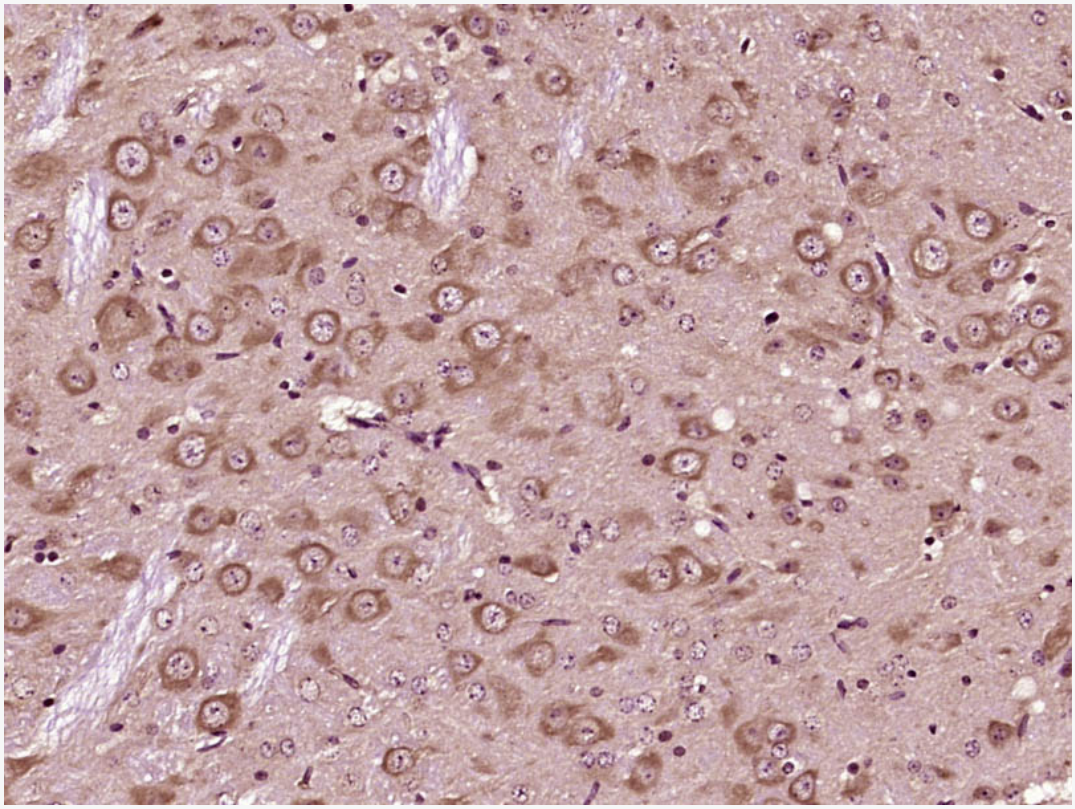
SwissProt: Q9UIX4 Human

SwissProt: A2BDX4 Mouse

Unigene: 118695 Human

Unigene: 91149 Rat

Product Picture



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (KCNG1) Polyclonal Antibody, Unconjugated (SL12174R) at 1:400 overnight at 4°C, followed by operating

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according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.