

# Product datasheet for AP05122PU-N

# **KCNA1 Rabbit Polyclonal Antibody**

# **Product data:**

#### OriGene Technologies, Inc.

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Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Western Blot: 5 - 10 µg/ml.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
lsotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide derived from the rat Kv1.1 potassium channel conjugated to KLH.
Specificity:	This antibody reacts to Kv1.1 Potassium Channel.
Formulation:	Phosphate buffered saline with 0.08% sodium azide State: Purified State: Liquid purified lg
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	The antibody can be shipped at ambient temperature. Store (in aliquots) at -20°C only Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	potassium voltage-gated channel subfamily A member 1
Database Link:	<u>Entrez Gene 3736 Human</u> <u>Q09470</u>



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### **GRIGENE** KCNA1 Rabbit Polyclonal Antibody – AP05122PU-N

Background:K+ channels from the Kv1 subfamily contain four alpha-subunits and the combinations (from<br/>Kv1.1-1.6) determine susceptibility to dendrotoxin (DTX) homologue. Kv1.1, a Shaker-like<br/>voltage-gated potassium channel, is strongly expressed in a variety of neurons in adult<br/>rodents, in which it appears to be involved in regulating neuronal excitability. Here we show<br/>that Kv1.1 is also expressed during embryonic development in the mouse, exhibiting two<br/>transient peaks of expression around embryonic day 9.5 (E9.5) and E14.5. Potassium<br/>channels play a critical role in limiting neuronal excitability. Mutations in certain voltage-gated<br/>potassium channels have been associated with hyperexcitable phenotypes in both humans<br/>and animals. However, only recently have mutations in potassium channel genes (i.e. KCNQ2<br/>and KCNQ3) been discovered in a human epilepsy, benign familial neonatal convulsions.

Synonyms: HUKI, HBK1

## **Product images:**



Western blot analysis using Kv1.1 antibody on rat brain lysate.

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