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**Product Name: KV3.1 Rabbit Polyclonal Antibody****Catalog #: APRab13165**

For research use only.

**Summary**

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

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:10000
<b>Molecular Weight</b>	60kDa

**Antigen Information**

<b>Gene Name</b>	KCNC1
<b>Alternative Names</b>	KCNC1; Potassium voltage-gated channel subfamily C member 1; NGK2; Voltage-gated potassium channel subunit Kv3.1; Voltage-gated potassium channel subunit Kv4
<b>Gene ID</b>	3746.0
<b>SwissProt ID</b>	P48547
<b>Immunogen</b>	Synthesized peptide derived from KV3.1 . at AA range: 190-270

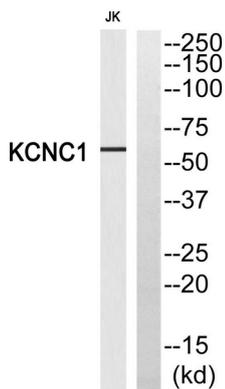
**Background**

This gene encodes a member of a family of integral membrane proteins that mediate the voltage-dependent potassium ion

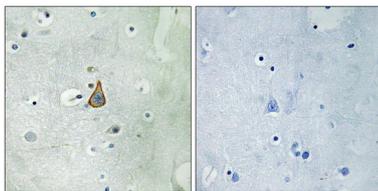
permeability of excitable membranes. Alternative splicing is thought to result in two transcript variants encoding isoforms that differ at their C-termini. These isoforms have had conflicting names in the literature: the longer isoform has been called both "b" and "alpha", while the shorter isoform has been called both "a" and "beta" (PMIDs 1432046, 12091563). [provided by RefSeq, Oct 2014],domain:The segment S4 is probably the voltage-sensor and is characterized by a series of positively charged amino acids at every third position.,domain:The tail may be important in modulation of channel activity and/or targeting of the channel to specific subcellular compartments.,function:Mediates the voltage-dependent potassium ion permeability of excitable membranes. Assuming opened or closed conformations in response to the voltage difference across the membrane, the protein forms a potassium-selective channel through which potassium ions may pass in accordance with their electrochemical gradient.,similarity:Belongs to the potassium channel family. C (Shaw) subfamily.,subunit:Heteromultimer with KCNG3, KCNG4 and KCNV2.,

## Research Area

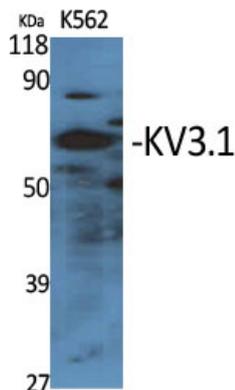
### Image Data



Western blot analysis of KCNC1 Antibody. The lane on the right is blocked with the KCNC1 peptide.



Immunohistochemistry analysis of paraffin-embedded human brain, using KCNC1 Antibody. The lane on the right is blocked with the KCNC1 peptide.



Western Blot analysis of various cells using KV3.1 Polyclonal Antibody

Western Blot analysis of K562 cells using KV3.1 Polyclonal Antibody

