Product Name: KV3.2 Rabbit Polyclonal Antibody
Catalog #: APRab13166

Summary

Production Name	KV3.2 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC,WB,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	KCNC2
Alternative Names	KCNC2; Potassium voltage-gated channel subfamily C member 2; Voltage-gated potassium channel Kv3.2
Gene ID	3747.0
SwissProt ID	Q96PR1.The antiserum was produced against synthesized peptide derived from human Potassium Channel Kv3.2b. AA range:589-638

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000..
Molecular Weight	70kD

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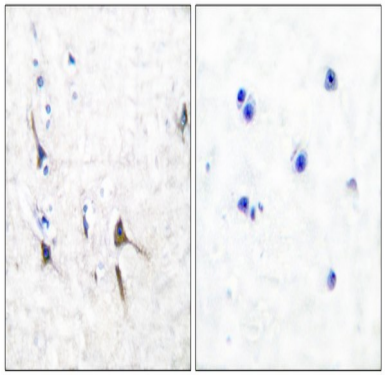
Background

The Shaker gene family of Drosophila encodes components of voltage-gated potassium channels and is comprised of four subfamilies. Based on sequence similarity, this gene is similar to one of these subfamilies, namely the Shaw subfamily. The protein encoded by this gene belongs to the delayed rectifier class of channel proteins and is an integral membrane protein that mediates the voltage-dependent potassium ion permeability of excitable membranes. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2012],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. Channel properties are modulated by subunit assembly.,similarity:Belongs to the potassium channel family. C (Shaw) subfamily.,subunit:The potassium channel is probably composed of a homo- or heterotetrameric complex of pore-forming subunits that can associate with modulating accessory subunits. Interacts with KCNC1, KCNE1, KCNE2 and KCNE3.,

Research Area

Image Data



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using Potassium Channel Kv3.2b Antibody. The picture on the right is blocked with the synthesized peptide.

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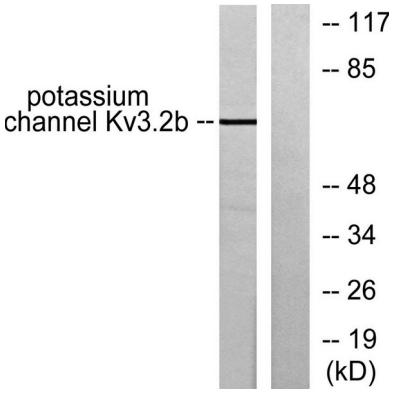
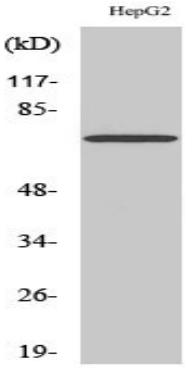


Western blot analysis of lysates from HepG2 cells, using Potassium Channel Kv3.2b Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using KV3.2 Polyclonal Antibody

Note

For research use only.