

KV3.2 Polyclonal Antibody

Catalog No :	YT2511
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	KV3.2
Gene Name :	KCNC2
Protein Name :	Potassium voltage-gated channel subfamily C member 2
Human Gene Id :	3747
Human Swiss Prot No :	Q96PR1
Mouse Swiss Prot No :	Q14B80
Rat Gene Id :	246153
Rat Swiss Prot No :	P22462
Immunogen :	The antiserum was produced against synthesized peptide derived from human Potassium Channel Kv3.2b. AA range:589-638
Specificity :	KV3.2 Polyclonal Antibody detects endogenous levels of KV3.2 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 70kD

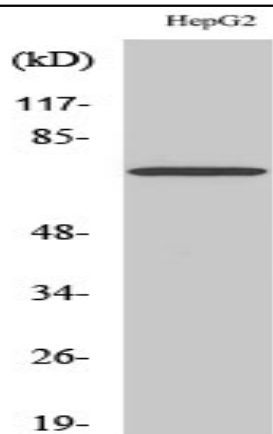
Background : The Shaker gene family of Drosophila encodes components of voltage-gated potassium channels and is comprised of four subfamilies. Based on sequence similarity, this gene is similar to one of these subfamilies, namely the Shaw subfamily. The protein encoded by this gene belongs to the delayed 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],

Function : 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 subun

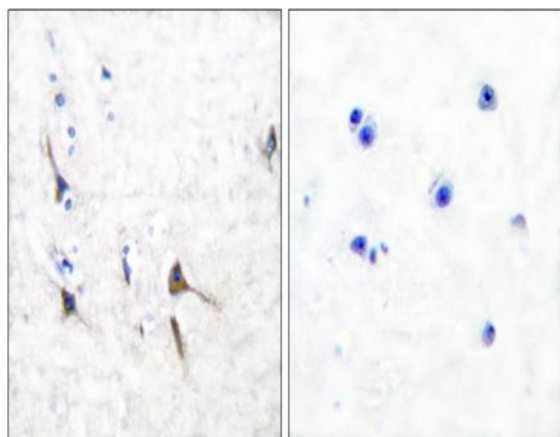
Subcellular Location : Cell membrane ; Multi-pass membrane protein . Membrane ; Multi-pass membrane protein . Perikaryon . Cell projection, axon . Cell projection, dendrite . Cell junction, synapse, postsynaptic cell membrane . Cell junction, synapse, presynaptic cell membrane . Cell junction, synapse, synaptosome . Cell junction, synapse . Apical cell membrane . Basolateral cell membrane . Colocalizes with parvalbumin in globus pallidus neurons. Localizes in thalamocortical axons and synapses. Localizes on the surface of cell somata, proximal dendrites and axonal membranes. Also detected throughout the neuropil. Localized in starburst cell somata and proximal dendrite processes. Colocalized with GABA in presynaptic terminals. Clustered in patches in somatic and proximal dendritic membrane as well as in axons an

Expression : Amygdala,Brain,

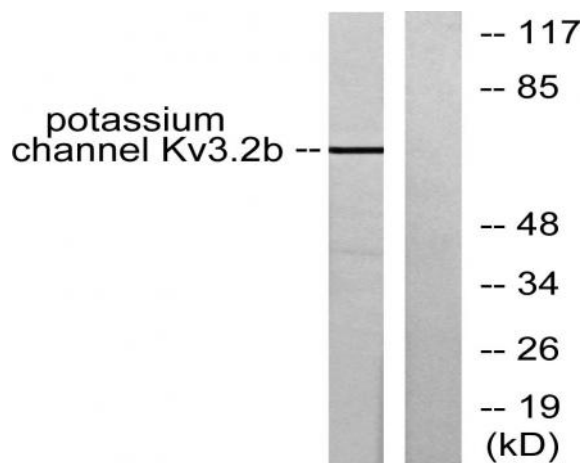
Products Images



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



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.



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.