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Kv3.4 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51299

Product Information

Application	WB
Primary Accession	Q03721
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	69767

Additional Information

Gene ID	3749
Other Names	Potassium voltage-gated channel subfamily C member 4, KSHIIIC, Voltage-gated potassium channel subunit Kv34, KCNC4
Target/Specificity	KLH conjugated synthetic peptide derived from human Kv3.4
Dilution	WB~~ 1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	KCNC4 (HGNC:6236)
Function	Voltage-gated potassium channel that opens in response to the voltage difference across the membrane, forming a potassium-selective channel through which potassium ions pass in accordance with their electrochemical gradient (PubMed:7993631). The channel displays rapid activation and inactivation kinetics (PubMed:7993631).
Cellular Location	Membrane; Multi-pass membrane protein.

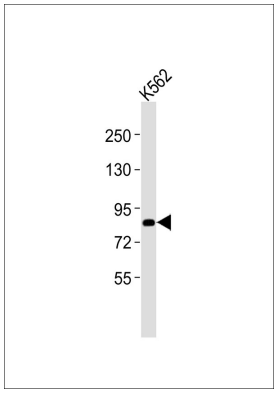
Background

This protein 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.

References

de Miera E.V.-S.,et al.Proc. R. Soc. B 248:9-18(1992).
Gregory S.G.,et al.Nature 441:315-321(2006).
Covarrubias M.,et al.Neuron 13:1403-1412(1994).
Beck E.J.,et al.J. Gen. Physiol. 112:71-84(1998).
Antz C.,et al.Nature 385:272-275(1997).

Images



Anti-Kv3.4 Antibodyat 1:1000 dilution + K562 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/10000 dilution Predicted band size : 70 kDa Blocking/Dilution buffer: 5% NFDM/TBST.