



KCNG3 rabbit pAb

Cat No.:ES5002

For research use only

Overview

Product Name	KCNG3 rabbit pAb
Host species	Rabbit
Applications	WB;IHC
Species Cross-Reactivity	Human;Mouse;Rat
Recommended dilutions	WB 1:500-2000;IHC-p 1:50-300
Immunogen	The antiserum was produced against synthesized peptide derived from human KCNG3. AA range:183-232
Specificity	KCNG3 Polyclonal Antibody detects endogenous levels of KCNG3 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Potassium voltage-gated channel subfamily G member 3
Gene Name	KCNG3
Cellular localization	Cell membrane ; Multi-pass membrane protein . Cytoplasm . Has to be associated with KCNB1 or possibly another partner to get inserted in the plasma membrane (PubMed:12060745). Colocalizes with KCNB1 at the plasma membrane (PubMed:12060745, PubMed:19074135). Remains intracellular in the absence of KCNB1 (PubMed:12060745). .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	50kD
Human Gene ID	170850
Human Swiss-Prot Number	Q8TAE7
Alternative Names	KCNG3; Potassium voltage-gated channel subfamily

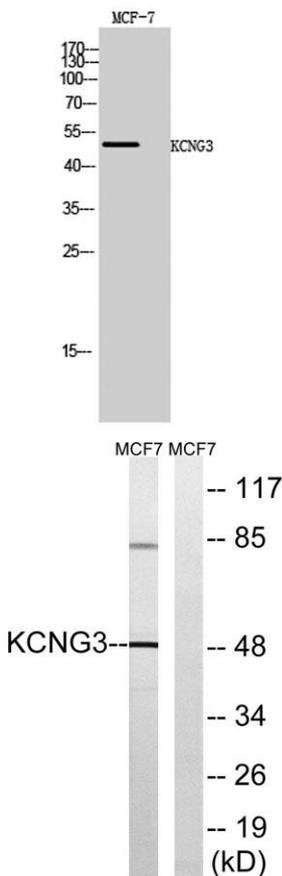




Background

G member 3; Voltage-gated potassium channel subunit Kv10.1; Voltage-gated potassium channel subunit Kv6.3

Voltage-gated potassium (Kv) channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. This gene encodes a member of the potassium channel, voltage-gated, subfamily G. This member is a gamma subunit functioning as a modulatory molecule. Alternative splicing results in two transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2008],



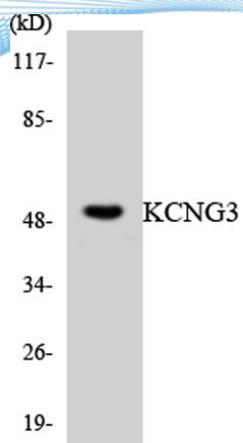
Western Blot analysis of MCF-7 cells using KCNG3 Polyclonal Antibody

Western blot analysis of lysates from MCF-7 cells, using KCNG3 Antibody. The lane on the right is blocked with the synthesized peptide.

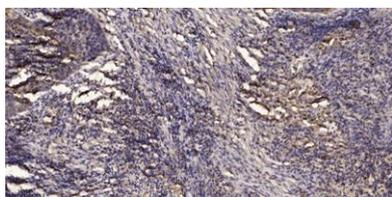




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Western blot analysis of the lysates from HeLa cells using KCNG3 antibody.



Immunohistochemical analysis of paraffin-embedded human Squamous cell carcinoma of lung. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).



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