

# KCNG3 Polyclonal Antibody

Catalog # AP70638

## Product Information

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<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">Q8TAE7</a>
<b>Reactivity</b>	Human, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	49593

## Additional Information

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<b>Gene ID</b>	170850
<b>Other Names</b>	KCNG3; Potassium voltage-gated channel subfamily G member 3; Voltage-gated potassium channel subunit Kv10.1; Voltage-gated potassium channel subunit Kv6.3
<b>Dilution</b>	WB--Western Blot: 1/500 - 1/2000. ELISA: 1/5000. Not yet tested in other applications.
<b>Format</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
<b>Storage Conditions</b>	-20°C

## Protein Information

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<b>Name</b>	KCNG3 ( <a href="#">HGNC:18306</a> )
<b>Function</b>	Regulatory subunit of the voltage-gated potassium (Kv) channel which, when coassembled with KCNB1, modulates the kinetics parameters of the heterotetrameric channel namely the inactivation and deactivation rate (PubMed: <a href="#">11852086</a> , PubMed: <a href="#">12060745</a> , PubMed: <a href="#">19074135</a> ). Potassium channel subunit that does not form functional channels by itself (PubMed: <a href="#">11852086</a> , PubMed: <a href="#">12060745</a> ). Reduces the deactivation rate (PubMed: <a href="#">11852086</a> ). Moderately accelerates activation (PubMed: <a href="#">12060745</a> ).
<b>Cellular Location</b>	Cell membrane; Multi-pass membrane protein. Cytoplasm. Note=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). Retains in the endoplasmic reticulum in the absence of KCNB1 (PubMed:12060745)
<b>Tissue Location</b>	Expressed in the brain, liver, testis, small intestine, colon, thymus and adrenal gland (PubMed:11852086, PubMed:12060745).

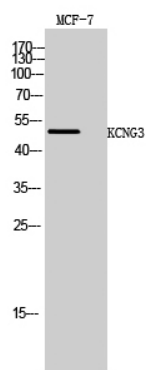
## Background

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Potassium channel subunit that does not form functional channels by itself (PubMed: [11852086](#)). Can form functional heterotetrameric channels with KCNB1; this promotes a reduction in the rate of activation and inactivation of the delayed rectifier voltage-gated potassium channel KCNB1 (PubMed:[11852086](#), PubMed:[19074135](#)).

## Images

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.