



# KCNG4 Monoclonal Antibody

<b>Catalog No</b>	YP-mAb-05956
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse
<b>Applications</b>	WB
<b>Gene Name</b>	KCNG4 KCNG3
<b>Protein Name</b>	Potassium voltage-gated channel subfamily G member 4 (Voltage-gated potassium channel subunit Kv6.4)
<b>Immunogen</b>	Synthesized peptide derived from human protein . at AA range: 420-500
<b>Specificity</b>	KCNG4 Monoclonal Antibody detects endogenous levels of protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
<b>Source</b>	Monoclonal, Mouse,IgG
<b>Purification</b>	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-1:2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	
<b>Observed Band</b>	57kD
<b>Cell Pathway</b>	Cell membrane ; Multi-pass membrane protein . Has to be associated with KCNB1 or possibly another partner to get inserted in the plasma membrane. Colocalizes with KCNB1 at the plasma membrane. Remains intracellular in the absence of KCNB1 (PubMed:19074135). .
<b>Tissue Specificity</b>	Highly expressed in brain, and at lower levels in liver, small intestine and colon.
<b>Function</b>	domain:The segment S4 is probably the voltage-sensor and is characterized by a series of positively charged amino acids at every third position..function:Potassium channel subunit. Modulates channel activity by shifting the threshold and the half-maximal activation to more negative values..similarity:Belongs to the potassium channel family. G subfamily..subcellular location:Has to be associated with KCNB1 or possibly another partner to get inserted in the plasma membrane. Remains intracellular in the absence of KCNB1..subunit:Heteromultimer with KCNB1, KCNC1 and KCNF1. Does not form homomultimers..tissue specificity:Highly expressed in brain, and at lower levels in liver, small intestine and colon.,
<b>Background</b>	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 functions as a modulatory subunit. The gene has strong expression in brain. Multiple alternatively spliced variants have been found in normal and cancerous tissues. [provided by RefSeq, Jul 2008],

**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images