

**KCNG3 Antibody (monoclonal) (M01)****Mouse monoclonal antibody raised against a partial recombinant KCNG3.****Catalog # AT2596a****Specification**

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**KCNG3 Antibody (monoclonal) (M01) - Product Information**

Application	E
Primary Accession	<a href="#">Q8TAE7</a>
Other Accession	<a href="#">NM_133329</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	49593

**KCNG3 Antibody (monoclonal) (M01) - Additional Information****Gene ID** 170850**Other Names**

Potassium voltage-gated channel subfamily G member 3, Voltage-gated potassium channel subunit Kv101, Voltage-gated potassium channel subunit Kv63, KCNG3

**Target/Specificity**

KCNG3 (NP\_579875, 23 a.a. ~ 121 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Precautions**

KCNG3 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

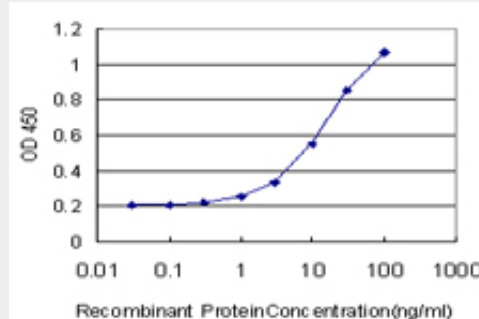
**KCNG3 Antibody (monoclonal) (M01) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

- [Flow Cytometry](#)
- [Cell Culture](#)

### KCNG3 Antibody (monoclonal) (M01) - Images



Detection limit for recombinant GST tagged KCNG3 is approximately 0.3ng/ml as a capture antibody.

### KCNG3 Antibody (monoclonal) (M01) - Background

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.

### KCNG3 Antibody (monoclonal) (M01) - References

Mutation of histidine 105 in the T1 domain of the potassium channel Kv2.1 disrupts heteromerization with Kv6.3 and Kv6.4. Mederos Y Schnitzler M, et al. J Biol Chem, 2009 Feb 13. PMID 19074135. International Union of Pharmacology. LIII. Nomenclature and molecular relationships of voltage-gated potassium channels. Gutman GA, et al. Pharmacol Rev, 2005 Dec. PMID 16382104. The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334. Modification of Kv2.1 K<sup>+</sup> currents by the silent Kv10 subunits. Vega-Saenz de Miera EC. Brain Res Mol Brain Res, 2004 Apr 7. PMID 15046870. Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932.