



# KCNG3 Monoclonal Antibody

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Catalog No</b>                  | YP-mAb-16434                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Isotype</b>                     | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Reactivity</b>                  | Human;Mouse;Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Applications</b>                | WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Gene Name</b>                   | KCNG3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>                   | The antiserum was produced against synthesized peptide derived from human KCNG3. AA range:183-232                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>                 | KCNG3 Monoclonal Antibody detects endogenous levels of KCNG3 protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Formulation</b>                 | Liquid in PBS containing 50% glycerol, 0.5% BSA 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>                    | KCNG 3;Kcng3;KCNG3_HUMAN;KV1.1;Kv1.1a;Kv1.1b;KV6.3;OTTHUMP21478; OTTHUMP21479;Potassium voltage gated channel subfamily G member 3; Potassium voltage-gated channel subfamily G member 3;Voltage gated potassium channel 6.3;Voltage gated potassium channel Kv1.1;Voltage gated potassium channel subunit Kv1.1;Voltage gated potassium channel subunit Kv6.3;Voltage gated potassium channel subunit Kv6.4;Voltage-gated potassium channel subunit Kv1.1;Voltage-gated potassium channel subunit Kv6.3;Voltage-gated potassium channel subunit Kv10.1 |
| <b>Observed Band</b>               | 50kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Calculated Molecular Weight</b> | 50kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Cell Pathway</b>                | 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). .                                                                                                                                                                                                                    |
| <b>Tissue Specificity</b>          | Expressed in the brain, liver, testis, small intestine, colon, thymus and adrenal gland (PubMed:11852086, PubMed:12060745).                                                                                                                                                                                                                                                                                                                                                                                                                             |



## Function

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.,  
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:Detected in many parts of the brain with the exception of the cerebellum, in testis, pancreas, lung, kidney, ovary, small intestine, colon, thymus, adrenal gland and spinal cord.,

## 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. [provided by RefSeq, Jul 2008],

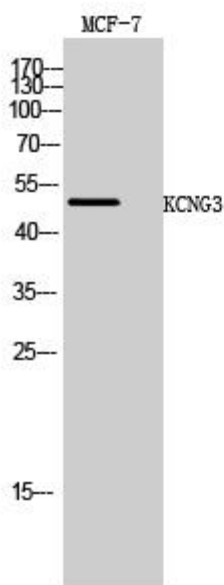
## matters needing attention

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



Western Blot analysis of various cells using KCNG3 Monoclonal Antibody