

# KCNG4 antibody - N-terminal region

Rabbit Polyclonal Antibody

Catalog # AI10845

## Product Information

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|-------------------|---|
| Application       | WB  |
| Primary Accession | <a href="#">Q8TDN1</a>                                |
| Other Accession   | <a href="#">NM_172347</a> , <a href="#">NP_758857</a> |
| Reactivity        | Human   |
| Predicted         | Human   |
| Host              | Rabbit  |
| Clonality         | Polyclonal  |
| Calculated MW     | 58979   |

## Additional Information

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|--------------------------|--|
| Gene ID                  | 93107  |
| Alias Symbol             | KV6.3, KV6.4, MGC129609, MGC4558   |
| Other Names              | Potassium voltage-gated channel subfamily G member 4, Voltage-gated potassium channel subunit Kv6.4, KCNG4, KCNG3  |
| Format                   | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.  |
| Reconstitution & Storage | Add 50 ul of distilled water. Final anti-KCNG4 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles. |
| Precautions              | KCNG4 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.   |

## Protein Information

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|----------|--|
| Name     | KCNG4 ( <a href="#">HGNC:19697</a> )   |
| Synonyms | KCNG3  |
| Function | Regulatory subunit of the voltage-gated potassium (Kv) channel which, when coassembled with KCNB1, modulates the kinetics parameters of the heterotetrameric channel namely the time course of activation, deactivation and inactivation and on the voltage-dependence of activation (PubMed: <a href="#">12060745</a> , PubMed: <a href="#">19074135</a> ). Potassium channel subunit that does not form functional channels by itself (Probable) (PubMed: <a href="#">12060745</a> ). Reduces the deactivation rate (PubMed: <a href="#">12060745</a> , PubMed: <a href="#">19074135</a> ). Modulates the threshold for activation by shifting by approximately 20 mV in |

hyperpolarizing direction (PubMed:[12060745](#)). Markedly changes the inactivation by shifting the voltage dependence of inactivation by approximately 40 mV in hyperpolarizing direction (PubMed:[12060745](#)). Accelerate activation and enhances the time course of activation (PubMed:[12060745](#)).

#### Cellular Location

Cell membrane; Multi-pass membrane protein. Note=Has to be associated with KCNB1 or possibly another partner to get inserted in the plasma membrane (PubMed:19074135). Colocalizes with KCNB1 at the plasma membrane (PubMed:19074135). Retains in the endoplasmic reticulum in the absence of KCNB1 (PubMed:19074135).

#### Tissue Location

Highly expressed in brain, and at lower levels in liver, small intestine and colon.

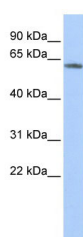
## References

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Gutman, G.A., (2005) Pharmacol. Rev. 57 (4), 473-508 Reconstitution and Storage: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

## Images

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WB Suggested Anti-KCNG4 Antibody Titration: 0.2-1 µg/ml  
ELISA Titer: 1:62500  
Positive Control: 721\_B cell lysate

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