Datasheet for ABIN2776139

# anti-KCNG1 antibody (N-Term)

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## Overview

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| Quantity: | 100 µL |
| Target: | KCNG1 |
| Binding Specificity: | N-Term |
| Reactivity: | Human, Mouse, Rat, Guinea Pig, Cow, Rabbit, Horse, Dog |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This KCNG1 antibody is un-conjugated |
| Application: | Western Blotting (WB) |

## Product Details

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| Immunogen: | The immunogen is a synthetic peptide directed towards the N terminal region of human KCNG1 |
| Sequence: | MTLLPGDNSD YDYSALSCTS DASFHPAFLP QRQAIKGAFY RRAQRLRPQD |
| Predicted Reactivity: | Cow: 86%, Dog: 92%, Guinea Pig: 86%, Horse: 79%, Human: 100%, Mouse: 86%, Rabbit: 83%, Rat: 86% |
| Characteristics: | This is a rabbit polyclonal antibody against KCNG1. It was validated on Western Blot using a cell lysate as a positive control. |
| Purification: | Affinity Purified |

## Target Details

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|---|---|
| Target: | KCNG1 |

## Target Details

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| Alternative Name: | KCNG1 (KCNG1 Products) |
| 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. KCNG1 is a member of the potassium channel, voltage-gated, subfamily G. 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 gene is abundantly expressed in skeletal muscle. Alternative splicing results in at least two transcript variants encoding distinct isoforms.<br>Alias Symbols: K13, KCNG, KV6.1, MGC12878, kH2<br>Protein Interaction Partner: HSP90AA1, KCNB1, UBC,<br>Protein Size: 513 |
| Molecular Weight: | 56 kDa |
| Gene ID: | 3755 |
| NCBI Accession: | NM_002237, NP_002228 |
| UniProt: | Q9UIX4 |

## Application Details

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| Application Notes: | Optimal working dilutions should be determined experimentally by the investigator. |
| Comment: | Antigen size: 513 AA |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Concentration: | Lot specific |
| Buffer: | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose. |
| Preservative: | Sodium azide |

## Handling

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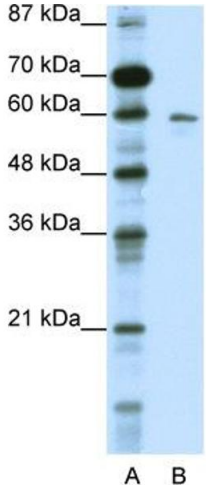
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -20 °C |
| Storage Comment: | For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles. |

## Publications

| | |
|---|---|
| Product cited in: | Tilley, Harvey, Heguy, Hackett, Wang, OConnor, Crystal: "Down-regulation of the notch pathway in human airway epithelium in association with smoking and chronic obstructive pulmonary disease." in: **American journal of respiratory and critical care medicine**, Vol. 179, Issue 6, pp. 457-66, (2009) (PubMed). |

## Images




**Western Blotting**

**Image 1.** WB Suggested Anti-KCNG1 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:62500 Positive Control: HepG2 cell lysate