

## Rabbit anti-Human KCNK1 Polyclonal Antibody | anti-KCNK1 antibody

KCNK1 Antibody

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                    |
|-----------|--------|------------|-------------------------------------------------|
| AAA233698 | Rabbit | Human      | Immunofluorescence, Immunohistochemistry, ELISA |

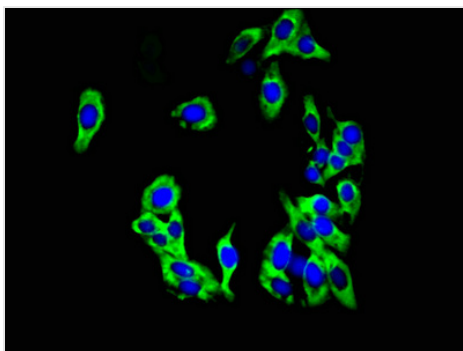
### PRODUCT SYNONYMS

KCNK1; Polyclonal Antibody; KCNK1 Antibody; Potassium channel subfamily K member 1; Inward rectifying potassium channel protein TWIK-1; HOHO1; anti-KCNK1 antibody

### PRODUCT SPECIFICATIONS

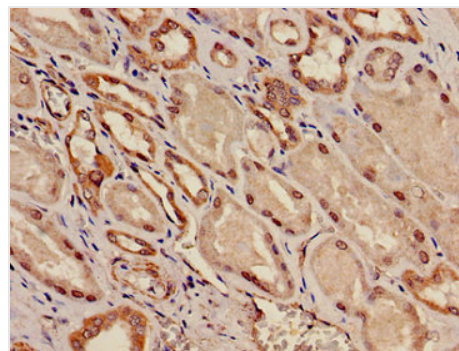
|                                                 |                                                                                  |
|-------------------------------------------------|----------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                           |
| Reactivity                                      | Human                                                                            |
| Clonality                                       | Polyclonal                                                                       |
| Isotype                                         | IgG                                                                              |
| Purity/Purification                             | >95%, Protein G purified                                                         |
| Form/Format                                     | Liquid                                                                           |
| Sequence Length                                 | 336                                                                              |
| Applicable Applications for anti-KCNK1 antibody | IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA                       |
| Immunogen                                       | Recombinant Human Potassium channel subfamily K member 1 protein (268-336AA)     |
| Conjugation                                     | Non-conjugated                                                                   |
| Buffer                                          | Preservative: 0.03% Proclin 300<br>Constituents: 50% Glycerol, 0.01M PBS, pH 7.4 |
| Preparation and Storage                         | Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.      |

### IMAGES



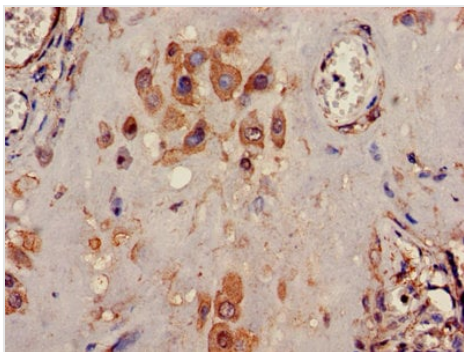
IHC (Immunohistochemisry)

Immunofluorescent analysis of HepG2 cells using AAA233698 at a dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



IHC (Immunohiostchemistry)

Immunohistochemistry of paraffin-embedded human kidney tissue using AAA233698 at dilution of 1:100



**IHC (Immunohistochemistry)**  
Immunohistochemistry of paraffin-embedded human placenta tissue using AAA233698 at dilution of 1:100

### ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-KCNK1 antibody</b> | <p>Ion channel that contributes to passive transmembrane potassium transport and to the regulation of the resting membrane potential in brain astrocytes, but also in kidney and in other tissues (PubMed:15820677, PubMed:21653227). Forms dimeric channels through which potassium ions pass in accordance with their electrochemical gradient. The channel is selective for K(+) ions at physiological potassium concentrations and at neutral pH, but becomes permeable to Na(+) at subphysiological K(+) levels and upon acidification of the extracellular medium (PubMed:21653227, PubMed:22431633). The homodimer has very low potassium channel activity, when expressed in heterologous systems, and can function as weakly inward rectifying potassium channel (PubMed:8605869, PubMed:8978667, PubMed:15820677, PubMed:21653227, PubMed:22431633, PubMed:23169818, PubMed:25001086). Channel activity is modulated by activation of serotonin receptors (By similarity). Heterodimeric channels containing KCNK1 and KCNK2 have much higher activity, and may represent the predominant form in astrocytes (By similarity). Heterodimeric channels containing KCNK1 and KCNK3 or KCNK9 have much higher activity (PubMed:23169818). Heterodimeric channels formed by KCNK1 and KCNK9 may contribute to halothane-sensitive currents (PubMed:23169818). Mediates outward rectifying potassium currents in dentate gyrus granule cells and contributes to the regulation of their resting membrane potential (By similarity). Contributes to the regulation of action potential firing in dentate gyrus granule cells and down-regulates their intrinsic excitability (By similarity). In astrocytes, the heterodimer formed by KCNK1 and KCNK2 is required for rapid glutamate release in response to activation of G-protein coupled receptors, such as F2R and CNR1 (By similarity). Required for normal ion and water transport in the kidney (By similarity). Contributes to the regulation of the resting membrane potential of pancreatic beta cells (By similarity). The low channel activity of homodimeric KCNK1 may be due to sumoylation (PubMed:15820677, PubMed:20498050, PubMed:23169818). The low channel activity may be due to rapid internalization from the cell membrane and retention in recycling endosomes (PubMed:19959478).</p> |
| <b>Product Categories/Family for anti-KCNK1 antibody</b>   | <p>Neuroscience; Metabolism; Signal transduction</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

### NCBI AND UNIPROT INFORMATION

|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| NCBI GI #                        | 4504847                                                |
| NCBI GeneID                      | 3775                                                   |
| NCBI Accession #                 | NP_002236.1                                            |
| NCBI GenBank Nucleotide #        | NM_002245.3                                            |
| UniProt Accession #              | O00180; Q13307; Q5T5E8                                 |
| Molecular Weight                 | 38,143 Da                                              |
| NCBI Official Full Name          | potassium channel subfamily K member 1                 |
| NCBI Official Synonym Full Names | potassium two pore domain channel subfamily K member 1 |
| NCBI Official Symbol             | KCNK1                                                  |
| NCBI Official Synonym Symbols    | DPK; HOHO; K2P1; KCNO1; TWIK1; K2p1.1; TWIK-1          |

|                          |                                        |
|--------------------------|----------------------------------------|
| NCBI Protein Information | potassium channel subfamily K member 1 |
| UniProt Protein Name     | Potassium channel subfamily K member 1 |
| UniProt Gene Name        | KCNK1                                  |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/kcnk1-antibody-immunofluorescence-immunohistochemistry-elisa/233698>