

Rabbit KCNK2 Polyclonal Antibody | anti-KCNK2 antibody

KCNK2 Antibody

CATALOG # AAA328895	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA
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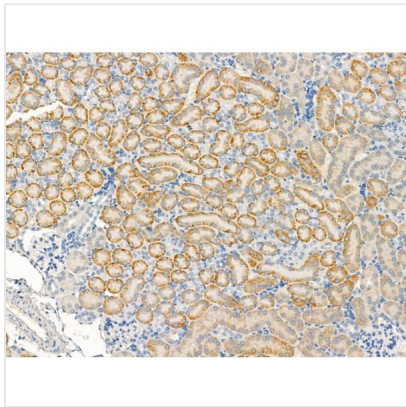
PRODUCT SYNONYMS

KCNK2; Polyclonal Antibody; KCNK2 Antibody; hTREK 1c; hTREK 1e; K2p2.1; K2P2.1 potassium channel; KCNK 2; Kcnk2; KCNK2_HUMAN; MGC126742; MGC126744; Outward rectifying potassium channel protein TREK 1; Outward rectifying potassium channel protein TREK-1; Outward rectifying potassium channel protein TREK1; Potassium channel subfamily K member 2; Potassium inwardly rectifying channel subfamily K member 2; Tandem pore domain potassium channel TREK 1; Tandem pore domain potassium channel TREK1; TPKC1; TREK 1; TREK 1 K(+) channel subunit; TREK; TREK-1 K(+) channel subunit; TREK1; TWIK related potassium channel 1; Two pore domain potassium channel TREK 1; Two pore domain potassium channel TREK-1; Two pore domain potassium channel TREK1; Two pore potassium channel 1; Two pore potassium channel TPKC1; anti-KCNK2 antibody

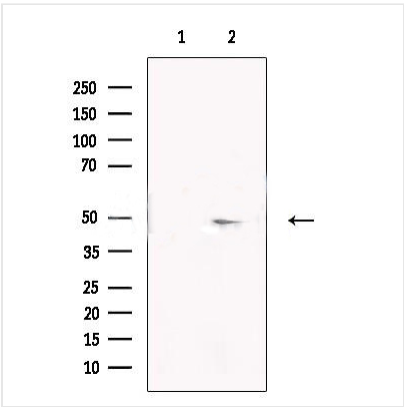
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	KCNK2 Antibody detects endogenous levels of total KCNK2.
Purity/Purification	Peptide affinity purification
Form/Format	Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	422
Applicable Applications for anti-KCNK2 antibody	ELISA
Immunogen	A synthesized peptide derived from human KCNK2, corresponding to a region within N-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20°C. Stable for up to 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA328895 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from Human brain, using KCNK2 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-KCNK2 antibody	Function: Ion channel that contributes to passive transmembrane potassium transport (PubMed:23169818). Reversibly converts between a voltage-insensitive potassium leak channel and a voltage-dependent outward rectifying potassium channel in a phosphorylation-dependent manner (PubMed:11319556). In astrocytes, forms mostly heterodimeric potassium channels with KCNK1, with only a minor proportion of functional channels containing homodimeric KCNK2. 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).Does not display channel activity but reduces the channel activity of isoform 1 and isoform 2 and reduces cell surface expression of isoform 2.
	Post Translational Modifications: Phosphorylation at Ser-348 controls the reversible conversion from a leak channel to a voltage-dependent channel.
	Subcellular Location: Cell membrane>Multi-pass membrane protein. Cell membrane>Multi-pass membrane protein. Endoplasmic reticulum membrane>Multi-pass membrane protein.
	Tissue Specificity: Isoform 4 is detected in kidney, adrenal gland and brain where it is preferentially expressed in the amygdala but not found in thalamus, hypothalamus, hippocampus or substantia nigra.
	Subunit Structure: Homodimer; disulfide-linked (Ref.13). Heterodimer with KCNK1; disulfide-linked (By similarity). Interacts with BVES; the interaction enhances KCNK2 surface expression and is inhibited by cAMP (PubMed:26642364).
	Similarity: The C-terminal region of isoform 4 mediates its intracellular retention.Belongs to the two pore domain potassium channel (TC 1.A.1.8) family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	62912487
NCBI GeneID	3776
NCBI Accession #	NP_001017424.1
NCBI GenBank Nucleotide #	NP_001017424.1
UniProt Accession #	O95069
Molecular Weight	47 kDa
NCBI Official Full Name	potassium channel subfamily K member 2 isoform a

NCBI Official Synonym Full Names	potassium two pore domain channel subfamily K member 2
NCBI Official Symbol	KCNK2
NCBI Official Synonym Symbols	TREK; TPKC1; TREK1; K2p2.1; TREK-1; hTREK-1c; hTREK-1e
NCBI Protein Information	potassium channel subfamily K member 2
UniProt Protein Name	Potassium channel subfamily K member 2
UniProt Gene Name	KCNK2
UniProt Synonym Gene Names	TREK; TREK1

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/kcnk2-antibody-elisa/328895>