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# anti-KCNK1 antibody (N-Term)

**Images** 



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Quantity:	100 μL
Target:	KCNK1
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCNK1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF),
	Immunocytochemistry (ICC)
Product Details	
Immunogen:	A synthesized peptide derived from human KCNK1, corresponding to a region within N-terminal
	amino acids.
Isotype:	IgG
Specificity:	KCNK1 Antibody detects endogenous levels of total KCNK1.
Predicted Reactivity:	Pig,Bovine,Rabbit
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink <sup>TM</sup> Coupling

# **Target Details**

Target: KCNK1

Resin (Thermo Fisher Scientific).

Target Details	
Alternative Name:	KCNK1 (KCNK1 Products)
Background:	Description: 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 gyru
	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).
	Gene: KCNK1
Molecular Weight:	38 kDa
Gene ID:	3775
UniProt:	000180
Application Details	

Application Notes:

WB 1:500-1:1000, IF/ICC 1:100-1:500, IHC 1:50-1:200, ELISA(peptide) 1:20000-1:40000

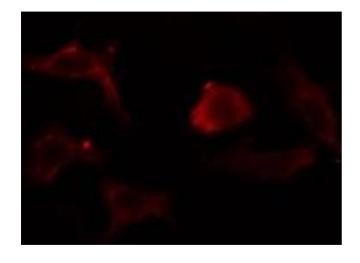
# **Application Details**

Restrictions:	For Research Use only
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# Handling

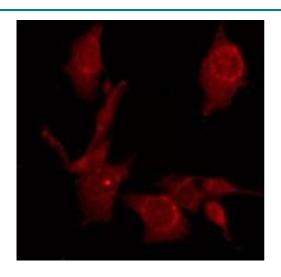
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

#### **Images**



#### Immunofluorescence (fixed cells)

**Image 1.** ABIN6275370 staining Hela cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25;ãC. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37;ãC. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody(Cat.# S0006), diluted at 1/600, was used as secondary antibod



#### Immunofluorescence (fixed cells)

**Image 2.** ABIN6275370 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25¡ãC. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37¡ãC. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibod