

Rabbit KCNC1 Polyclonal Antibody | anti-KCNC1 antibody

KCNC1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324971	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

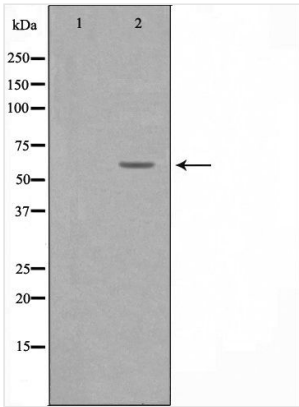
PRODUCT SYNONYMS

KCNC1; Polyclonal Antibody; KCNC1 Antibody; C230009H10Rik; FLJ41162; FLJ42249; FLJ43491; Kcnc1; KCNC1_HUMAN; Kcr2 1; KShIIIB; Kv3.1; Kv4; MGC129855; NGK2; Potassium voltage-gated channel subfamily C member 1; Shaw; Voltage gated potassium channel; Voltage gated potassium channel subunit Kv3.1; Voltage-gated potassium channel subunit Kv3.1; Voltage-gated potassium channel subunit Kv4; anti-KCNC1 antibody

PRODUCT SPECIFICATIONS

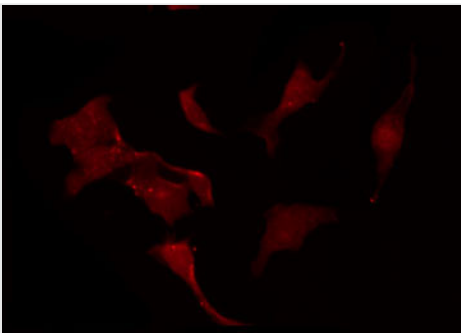
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	KCNC1 antibody detects endogenous levels of total KCNC1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	585
Applicable Applications for anti-KCNC1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cell Membrane
Predicted Cross Reactivity	Horse, Sheep, Rabbit, Dog
Similarity	Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts from JK cells, using KCNC1 antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA324971 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 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-KCNC1 antibody

Function: Voltage-gated potassium channel that plays an important role in the rapid repolarization of fast-firing brain neurons. The channel opens in response to the voltage difference across the membrane, forming a potassium-selective channel through which potassium ions pass in accordance with their electrochemical gradient (PubMed:25401298). Can form functional homotetrameric channels and heterotetrameric channels that contain variable proportions of KCNC2, and possibly other family members as well. Contributes to fire sustained trains of very brief action potentials at high frequency in pallidal neurons.

Subunit Structure: Heteromultimer with KCNG3, KCNG4 and KCNV2 (By similarity). Heteromultimer with KCNC2 (By similarity). Heterotetramer with KCNC3 (PubMed:23734863). Interacts with the ancillary subunits KCNE1 and KCNE2; the interaction modulates channel activity (By similarity).

Post-translational Modifications: N-glycosylated; contains sialylated glycans.

Similarity: The segment S4 is probably the voltage-sensor and is characterized by a series of positively charged amino acids at every third position. The tail may be important in modulation of channel activity and/or targeting of the channel to specific subcellular compartments. Belongs to the potassium channel family. C (Shaw) (TC 1.A.1.2) subfamily. Kv3.1/KCNC1 sub-subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	163792201
NCBI GeneID	3746
NCBI Accession #	NP_001106212.1
NCBI GenBank Nucleotide #	NM_001112741.1
UniProt Accession #	P48547; K4DI87
Molecular Weight	Observed: 60 kD Predicted: 58 kDa
NCBI Official Full Name	potassium voltage-gated channel subfamily C member 1 isoform 1
NCBI Official Synonym Full Names	potassium voltage-gated channel subfamily C member 1
NCBI Official Symbol	KCNC1
NCBI Official Synonym Symbols	KV4; EPM7; NGK2; KV3.1
NCBI Protein Information	potassium voltage-gated channel subfamily C member 1
UniProt Protein Name	Potassium voltage-gated channel subfamily C member 1
UniProt Gene Name	KCNC1

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/kcnc1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/324971>