10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KCNN3 antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI10788

Product Information

Application	WB, IHC
Primary Accession	Q9UGI6
Other Accession	NM_002249, NP_002240
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog, Horse, Bovine
Predicted	Mouse, Rat, Rabbit, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	81385

Additional Information

Gene ID	3782
Alias Symbol	SK3, hSK3, SKCA3, KCa2.3
Other Names	Small conductance calcium-activated potassium channel protein 3, SK3, SKCa 3, SKCa3, KCa2.3, KCNN3, K3
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-KCNN3 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	KCNN3 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	KCNN3 (HGNC:6292)
Synonyms	K3
Function	Small conductance calcium-activated potassium channel that mediates the voltage-independent transmembrane transfer of potassium across the cell membrane through a constitutive interaction with calmodulin which binds the intracellular calcium allowing its opening (PubMed:12808432, PubMed:20562108, PubMed:31155282, PubMed:36502918). The current is characterized by a voltage-independent activation, an intracellular calcium concentration increase-dependent activation and a single-channel conductance of 10 picosiemens (PubMed:12808432, PubMed:20562108,

PubMed:31155282, PubMed:36502918). Also presents an inwardly rectifying current, thus reducing its already small outward conductance of potassium ions, which is particularly the case when the membrane potential displays positive values, above + 20 mV (PubMed:12808432). Activation is followed by membrane hyperpolarization. Thought to regulate neuronal excitability by contributing to the slow component of synaptic afterhyperpolarization (By similarity).

Cellular Location

Cell membrane; Multi-pass membrane protein. Cytoplasm, myofibril, sarcomere, Z line {ECO:0000250|UniProtKB:P58391}

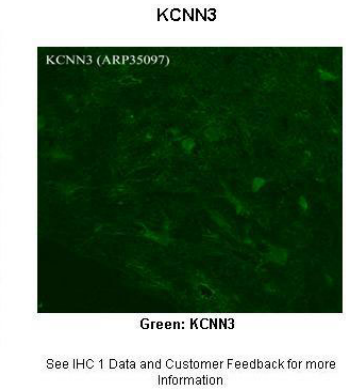
Tissue Location

[Isoform 3]: Widely distributed in human tissues and is present at 20-60% of KCNN3 in the brain

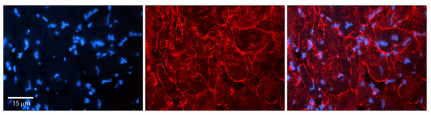
References

Kolski-Andreaco,A., et al., (2004) J. Biol. Chem. 279 (8), 6893-6904Reconstitution and Storage:For short term use, store at 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.

Images

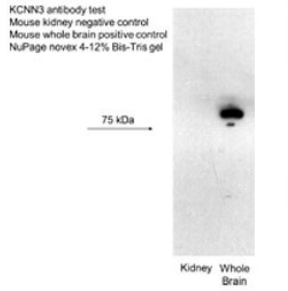


Sample Type : Rhesus macaque spinal cord Primary Antibody Dilution : 1:300 Secondary Antibody : Donkey anti Rabbit 488 Secondary Antibody Dilution : 1:500 Color/Signal Descriptions : Green: KCNN3 Gene Name : KCNN3 Submitted by : Timur Mavlyutov, Ph. D., Department of Pharmacology, University of Wisconsin Medical School, 1300 University Avenue, Madison, WI 53706



Rabbit Anti-KCNN3 Antibody
Catalog Number: AI10788
Formalin Fixed Paraffin Embedded Tissue: Human Adult heart Observed Staining: Membrane
Primary Antibody
Concentration: 1:600
Secondary Antibody: Donkey anti-Rabbit-Cy2/3
Secondary Antibody
Concentration: 1:200
Magnification: 20X
Exposure Time: 0.5 â€“ 2.0 sec
Protocol located in Reviews and Data.

WB Suggested Anti-KCNN3 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:62500
Positive Control: Daudi cell lysate
KCNN3 is supported by BioGPS gene expression data to be expressed in Daudi



KCNN3 antibody - C-terminal region (AI10788) validated by WB using Mouse kidney , Whole brain lysate at 2 µg/ml.