

KCNN3 antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI10788**Specification**

KCNN3 antibody - C-terminal region - Product Information

Application	WB, IHC
Primary Accession	O9UGI6
Other Accession	NM_002249 , NP_002240
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Dog
Predicted Host	Mouse, Rat, Rabbit, Pig, Bovine
Clonality	Rabbit
Calculated MW	Polyclonal 81kDa KDa

KCNN3 antibody - C-terminal region - 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.

KCNN3 antibody - C-terminal region - Protein InformationName 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:20562108)

href="http://www.uniprot.org/citations/31155282" target="_blank">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

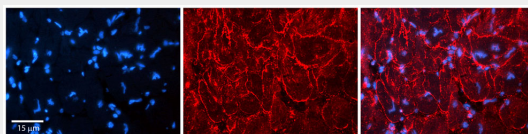
[Isoform 3]: Widely distributed in human tissues and is present at 20-60% of KCNN3 in the brain

KCNN3 antibody - C-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KCNN3 antibody - C-terminal region - Images



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 – 2.0 sec

Protocol located in Reviews and Data.



WB Suggested Anti-KCNN3 Antibody Titration: 0.2-1 µg/ml

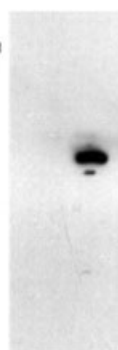
ELISA Titer: 1:62500

Positive Control: Daudi cell lysate

KCNN3 is supported by BioGPS gene expression data to be expressed in Daudi

KCNN3 antibody test
Mouse kidney negative control
Mouse whole brain positive control
NuPage novex 4-12% Bis-Tris gel

75 kDa



Kidney Whole
Brain

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

KCNN3 antibody - C-terminal region - References

Kolski-Andreaco,A., et al., (2004) J. Biol. Chem. 279 (8), 6893-6904
Reconstitution 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.