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

KCNN3 (SK3) Polyclonal Antibody
Catalog # AP63694

Specification

KCNN3 (SK3) Polyclonal Antibody - Product Information

Application	**IHC-P**
Primary Accession	Q9UGI6
Reactivity	**Human, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**

KCNN3 (SK3) Polyclonal Antibody - Additional Information

Gene ID 3782

Other Names
Small conductance calcium-activated potassium channel protein 3 (SK3) (SKCa 3) (SKCa3) (KCa2.3)

Dilution
IHC-P~~N/A

Format
Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions
-20℃

KCNN3 (SK3) Polyclonal Antibody - 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}

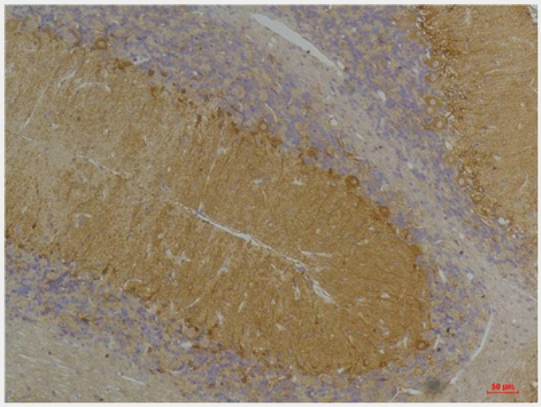
Tissue Location
[Isoform 3]: Widely distributed in human tissues and is present at 20-60% of KCNN3 in the brain

KCNN3 (SK3) Polyclonal Antibody - Protocols

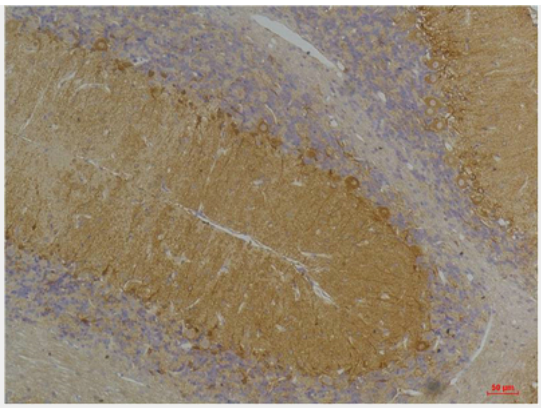
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KCNN3 (SK3) Polyclonal Antibody - Images



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



KCNN3 (SK3) Polyclonal Antibody - Background

Forms a voltage-independent potassium channel activated by intracellular calcium. Activation is followed by membrane hyperpolarization. Thought to regulate neuronal excitability by contributing to the slow component of synaptic afterhyperpolarization. The channel is blocked by apamin.