

KCNH3 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP56452

Specification

KCNH3 Polyclonal Antibody - Product Information

Application IHC-P, IHC-F, IF, ICC

Primary Accession
Reactivity
Rat
Host
Clonality
Calculated MW
Physical State

O9ULD8
Rat
Rabbit
Polyclonal
Liquid

Immunogen KLH conjugated synthetic peptide derived

from human KCNH3

Epitope Specificity 331-430/1083

Isotype IgG

Purity

affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Membrane; Multipass membrane protein.

SIMILARITY Contains 1 cyclic nucleotide-binding

domain. Contains 1 PAC (PAS-associated C-terminal) domain. Contains 1 PAS

(PER-ARNT-SIM) domain.

SUBUNIT The potassium channel is probably

composed of a homo- or heterotetrameric complex of pore-forming alpha subunits that can associate with modulating beta

subunits.

Important Note This product as supplied is intended for

research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

Voltage gated potassium (Kv) channels represent the most complex class of voltage gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. KCNH3 is a pore forming (alpha) subunit of voltage-gated potassium channel. It elicits an outward current with fast inactivation.

KCNH3 Polyclonal Antibody - Additional Information

Gene ID 23416

Other Names

Potassium voltage-gated channel subfamily H member 3, Brain-specific eag-like channel 1, BEC1,



Ether-a-go-go-like potassium channel 2, ELK channel 2, ELK2, Voltage-gated potassium channel subunit Kv12.2, KCNH3, KIAA1282

Target/Specificity

Detected only in brain, in particular in the telencephalon. Detected in the cerebral cortex, occipital pole, frontal and temporal lobe, putamen, amygdala, hippocampus and caudate nucleus.

Dilution

IHC-P~~N/A<br \> <span class
="dilution_IHC-F">IHC-F~~N/A<br \> <span class
="dilution_IF">IF~~1:50~200<br \> ICC~~N/A

Storage

Store at -20 $^{\circ}$ C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 $^{\circ}$ C.

KCNH3 Polyclonal Antibody - Protein Information

Name KCNH3 (HGNC:6252)

Synonyms KIAA1282

Function

Pore-forming (alpha) subunit of a voltage-gated inwardly rectifying potassium channel (PubMed:10455180). Charactherized by a fast rate of activation during depolarization followed by a rapid inactivation at much more depolarized value causing inward rectification due to a C-type inactivation mechanism (PubMed:10455180).

Exhibits a rapid recovery from inactivation (PubMed: 10455180).

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:Q9WVJ0}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q9WVJ0} Note=Expression on the cell membrane requires at least one of the three glycosylation sites to carry a sugar chain irrespective of their positions. {ECO:0000250|UniProtKB:Q9WVJ0}

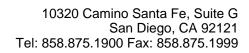
Tissue Location

Detected only in brain, in particular in the telencephalon (PubMed:10455180). Detected in the cerebral cortex, occipital pole, frontal and temporal lobe, putamen, amygdala, hippocampus and caudate nucleus (PubMed:10455180)

KCNH3 Polyclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety





• <u>Cell Culture</u> KCNH3 Polyclonal Antibody - Images