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

Anti-Kv4.3 Picoband Antibody

Catalog # ABO11920

Specification

Anti-Kv4.3 Picoband Antibody - Product Information

Application	**WB**
Primary Accession	Q9UK17
Host	**Rabbit**
Reactivity	**Human, Mouse**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Potassium voltage-gated channel subfamily D member 3(KCND3) detection. Tested with WB in Human;Mouse.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Kv4.3 Picoband Antibody - Additional Information

Gene ID 3752

Other Names
Potassium voltage-gated channel subfamily D member 3, Voltage-gated potassium channel subunit Kv4.3, KCND3

Calculated MW
73451 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml, Mouse, Human

Subcellular Localization
Membrane; Multi-pass membrane protein. Cell membrane, sarcolemma . Cell projection, dendrite .

Tissue Specificity
Highly expressed in heart and brain, in particular in cortex, cerebellum, amygdala and caudate nucleus. Detected at lower levels in liver, skeletal muscle, kidney and pancreas. Isoform 1 predominates in most tissues. Isoform 1 and isoform 2 are detected at similar levels in brain, skeletal muscle and pancreas. .

Protein Name
Potassium voltage-gated channel subfamily D member 3

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
E.coli-derived human Kv4.3 recombinant protein (Position: M1-H177). Human Kv4.3 shares 100%

and 99% amino acid (aa) sequences identity with mouse and rat Kv4.3, respectively.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time. Avoid repeated freezing and thawing.**

Sequence Similarities
Belongs to the potassium channel family. D (Shal) (TC 1.A.1.2) subfamily. Kv4.3/KCND3 sub-subfamily.

Anti-Kv4.3 Picoband Antibody - Protein Information

Name KCND3

Function
Pore-forming (alpha) subunit of voltage-gated rapidly inactivating A-type potassium channels. May contribute to I(To) current in heart and I(Sa) current in neurons. Channel properties are modulated by interactions with other alpha subunits and with regulatory subunits.

Cellular Location
Cell membrane {ECO:0000250|UniProtKB:Q62897}; Multi-pass membrane protein. Cell membrane, sarcolemma {ECO:0000250|UniProtKB:Q62897}; Multi-pass membrane protein. Cell projection, dendrite {ECO:0000250|UniProtKB:Q62897}. Note=Interaction with palmitoylated KCNIP2 and KCNIP3 enhances cell surface expression {ECO:0000250|UniProtKB:Q62897}

Tissue Location
Highly expressed in heart and brain, in particular in cortex, cerebellum, amygdala and caudate nucleus. Detected at lower levels in liver, skeletal muscle, kidney and pancreas. Isoform 1 predominates in most tissues. Isoform 1 and isoform 2 are detected at similar levels in brain, skeletal muscle and pancreas

Anti-Kv4.3 Picoband 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

Anti-Kv4.3 Picoband Antibody - Images

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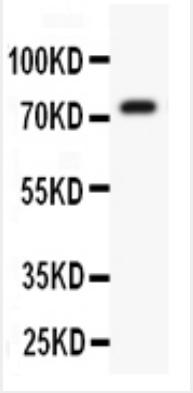

Anti- Kv4.3 antibody, ABO11920, Western blottingAll lanes: Anti Kv4.3 (ABO11920) at 0.5ug/mlWB: Mouse Brain Tissue Lysate at 50ugPredicted bind size: 73KDObserved bind size: 73KD

Anti-Kv4.3 Picoband Antibody - Background

Potassium voltage-gated channel subfamily D member 3, also known as Kv4.3, is a protein that in humans is encoded by the KCND3 gene. KCND3 is a member of the potassium channel, voltage-gated, shal-related subfamily. 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. It is mapped to 1p13.2. KCND3 is important in membrane repolarization in excitable cells. It contributes to the cardiac transient outward potassium current (Ito1), the main contributing current to the repolarizing phase 1 of the cardiac action potential.