

Anti-KCND1 Picoband Antibody
Catalog # ABO11947**Specification**

Anti-KCND1 Picoband Antibody - Product Information

| | |
|-------------------|------------------------|
| Application | WB |
| Primary Accession | Q9NSA2 |
| Host | Rabbit |
| Reactivity | Human, Mouse |
| Clonality | Polyclonal |
| Format | Lyophilized |

Description

Rabbit IgG polyclonal antibody for Potassium voltage-gated channel subfamily D member 1(KCND1) detection. Tested with WB in Human;Mouse.

Reconstitution

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

Anti-KCND1 Picoband Antibody - Additional Information

Gene ID 3750

Other Names

Potassium voltage-gated channel subfamily D member 1, Voltage-gated potassium channel subunit Kv4.1, KCND1

Calculated MW

71330 MW KDa

Application Details

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

Subcellular Localization

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

Tissue Specificity

Widely expressed. Highly expressed in brain, in particular in cerebellum and thalamus; detected at lower levels in the other parts of the brain. .

Protein Name

Potassium voltage-gated channel subfamily D member 1

Contents

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

Immunogen

E.coli-derived human KCND1 recombinant protein (Position: T442-L647). Human KCND1 shares 90% amino acid (aa) sequence identity with mouse KCND1.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, 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.

Anti-KCND1 Picoband Antibody - Protein Information**Name** KCND1**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

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

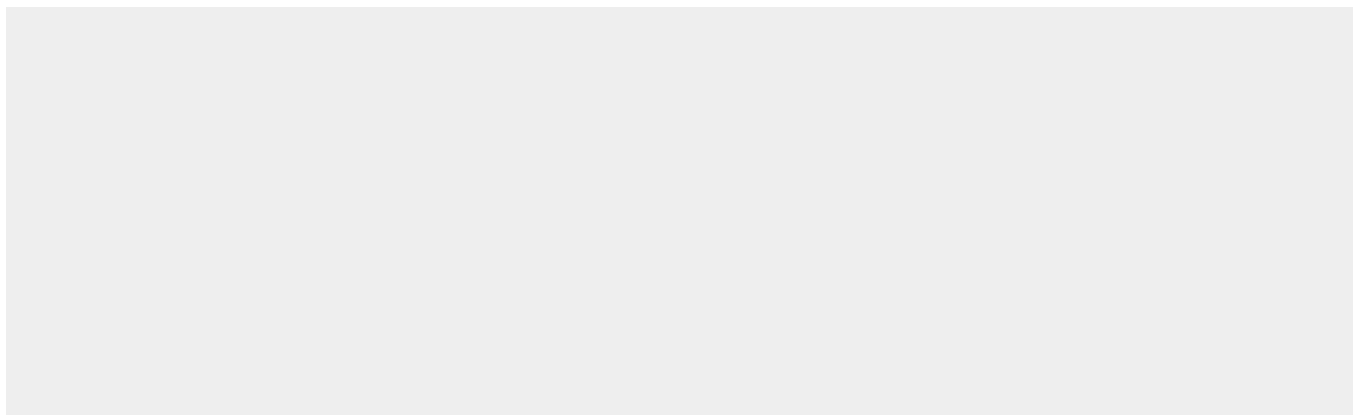
Tissue Location

Widely expressed. Highly expressed in brain, in particular in cerebellum and thalamus; detected at lower levels in the other parts of the brain.

Anti-KCND1 Picoband Antibody - Protocols

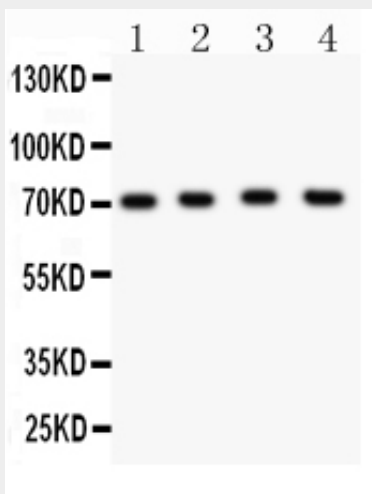
Provided below are standard protocols that you may find useful for product applications.

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

Anti-KCND1 Picoband Antibody - Images

100KD —
70KD —
55KD —
35KD —
25KD —
15KD —

Anti- KCND1 Picoband antibody, ABO11947, Western blottingAll lanes: Anti KCND1 (ABO11947) at 0.5ug/mlWB: Recombinant Human KCND1 Protein 0.5ngPredicted bind size: 39KDObserved bind size: 39KD



Anti- KCND1 Picoband antibody, ABO11947, Western blottingAll lanes: Anti KCND1 (ABO11947) at 0.5ug/mlLane 1: Mouse Brain Tissue Lysate at 50ugLane 2: HELA Whole Cell Lysate at 40ugLane 3: COLO320 Whole Cell Lysate at 40ugLane 4: A549 Whole Cell Lysate at 40ugPredicted bind size: 71KDObserved bind size: 71KD

Anti-KCND1 Picoband Antibody - Background

Potassium voltage-gated channel, Shal-related subfamily, member 1 (KCND1), also known as Kv4.1, is a human gene. It is mapped to Xp11.23. KCND1 encodes a member of the potassium channel, voltage-gated, shal-related subfamily, members of which form voltage-activated A-type potassium ion channels and are prominent in the repolarization phase of the action potential. The diverse functions of Voltage-gated potassium (Kv) channels include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. In addition to that, KCND1 is expressed at moderate levels in all tissues analyzed, with lower levels in skeletal muscle.