

Datasheet for ABIN3043866  
**anti-Kv2.1/KCNB1 antibody (AA 687-858)**



[Go to Product page](#)

9 Images

Overview

Quantity:	100 µg
Target:	Kv2.1/KCNB1 (KCNB1)
Binding Specificity:	AA 687-858
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Potassium voltage-gated channel subfamily B member 1(KCNB1) detection. Tested with WB, IHC-P, IHC-F in Human,Mouse,Rat.
Immunogen:	E.coli-derived human Kv2.1 recombinant protein (Position: V687-I858). Human Kv2.1 shares 88% amino acid (aa) sequences identity with both mouse and rat Kv2.1.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Potassium voltage-gated channel subfamily B member 1(KCNB1) detection. Tested with WB, IHC-P, IHC-F in Human,Mouse,Rat.  Gene Name: potassium voltage-gated channel, Shab-related subfamily, member 1 Protein Name: Potassium voltage-gated channel subfamily B member 1
Purification:	Immunogen affinity purified.

## Target Details

---

Target: Kv2.1/KCNB1 (KCNB1)

---

Alternative Name: KCNB1 ([KCNB1 Products](#))

---

Background: KCNB1, also known as Kv2.1 or DRK1, is a protein that, in humans, is encoded by the KCNB1 gene. It is mapped to 20q13.13. KCNB1 is found in cardiomyocytes, skeletal muscles, vascular smooth muscles, placental vasculature, retina, and pancreatic beta-cells. It can mediate the voltage-dependent potassium ion permeability of excitable membranes. KCNB1 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.

Synonyms: Delayed rectifier potassium channel 1 antibody|Delayed rectifier potassium channel Kv2.1 antibody|DRK 1 antibody|DRK1 antibody|h DRK1 K(+) channel antibody|h-DRK1 antibody|hDRK 1 antibody|hDRK1 antibody|KCB 1 antibody|KCB1 antibody|KCNB1 antibody|KCNB1\_HUMAN antibody|KV2.1 antibody|Potassium channel protein DRK1 antibody|Potassium voltage gated channel shab related subfamily member 1 antibody|Potassium voltage-gated channel subfamily B member 1 antibody|Voltage-gated potassium channel subunit Kv2.1 antibody

---

Gene ID: 3745

---

UniProt: [Q14721](#)

---

Pathways: [Synaptic Membrane](#)

---

## Application Details

---

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat, The detection limit for Kv2.1 is approximately 0.25 ng/lane under reducing conditions.  
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.  
IHC-F: Concentration: 0.5-1 µg/mL, Tested Species: Mouse, Rat  
Notes: Tested Species: Species with positive results. Other applications have not been tested.  
Optimal dilutions should be determined by end users.

---

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) and IHC(F).

---

## Application Details

---

Restrictions: For Research Use only

## Handling

---

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

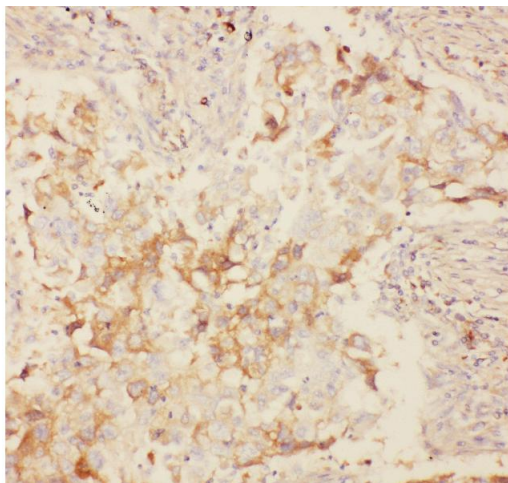
Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: 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.

## Images

---



### Immunohistochemistry

**Image 1.** Anti-Kv2.1 Picoband antibody, IHC(P): Human Lung Cancer Tissue



#### Western Blotting

**Image 2.** Anti-Kv2.1 Picoband antibody, All lanes: Anti KV2.1 at 0.5ug/ml WB: Recombinant Human kv2.1 Protein 0.5ng Predicted bind size: 47KD Observed bind size: 47KD



#### Western Blotting

**Image 3.** Anti-Kv2.1 Picoband antibody, All lanes: Anti KV2.1 at 0.5ug/ml Lane 1: Rat Brain Tissue Lysate at 50ug Lane 2: Mouse Brain Tissue Lysate at 50ug Predicted bind size: 96KD Observed bind size: 96KD

Please check the [product details page](#) for more images. Overall 9 images are available for ABIN3043866.