Datasheet for ABIN6658107

anti-Kv2.1/KCNB1 antibody (C-Term)

2 Images

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Overview

Quantity:	100 µg
Target:	Kv2.1/KCNB1 (KCNB1)
Binding Specificity:	C-Term
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Kv2.1/KCNB1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Fluorescence Microscopy (FM)

Product Details

Purpose:	Kv2.1 Antibody
Immunogen:	Kv2.1 Antibody was produced in mice by repeated immunizations raised against a synthetic peptide corresponding to the cytoplasmic C-terminus region of rat KV2.1.
Clone:	S89-34
Isotype:	IgG1
Purification:	Anti-Kv2.1 Antibody was purified by Protein G chromatography.
Sterility:	Sterile filtered

Target Details

Target:	Kv2.1/KCNB1 (KCNB1)
Alternative Name:	Kv2.1 (KCNB1 Products)
Background:	Synonyms: Shab, Kv2.1, DRK1PC, Kcr1-1, Kcnb1, Potassium voltage-gated channel subfamily B member 1, Delayed rectifier potassium channel 1, DRK1, Voltage-gated potassium channel subunit Kv2.1 Background: Voltage gated channels are tetrameters composed of four alpha-subunits arranged around a central pore. Each alpha subunit consists of six transmembrane segments with cytoplasmic NH2 and COOH-termini. Members of the KV1- KV4 subfamilies generate functional K+ channels in a homotetrameric configuration. The KV2 subfamily consists of KV2.1 and KV2.2, and both have very similar properties. Members of the KV2 subfamily are widely expressed in neuronal tissues. They have also been reported in neurons in the dorsal root ganglia. Gene Name: Kcnb1
Gene ID:	25736
NCBI Accession:	NP_037318
UniProt:	P15387
Pathways:	Synaptic Membrane

Application Details

Application Notes:	Immunoprecipitation_Dilution: User Optimized Immunohistochemistry_Dilution: 0.1-1.0 µg/mL IF_Microscopy_Dilution: 1.0-10 µg/mL Western_Blot_Dilution: 1 µg/mL
Comment:	Anti-Kv2.1 Antibody is tested for use in WB, IP, and IHC. Expect a band approximately ~105-125kDa on specific lysates (varies with cell background due to phosphorylation). Specific conditions for reactivity should be optimized by the end user.
Restrictions:	For Research Use only

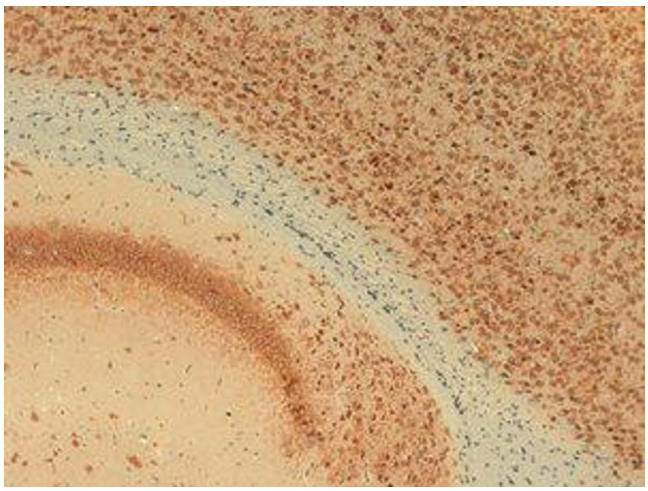
Handling

Format:	Liquid
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 50 % (v/v) Glycerol

Handling

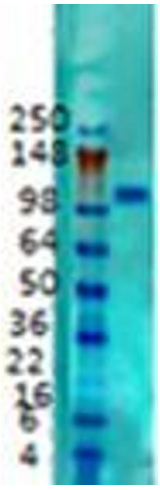
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Images



Immunohistochemistry

Image 1. Kv2.1 Immunohistochemistry. Immunohistochemistry of mouse anti-Kv2.1 antibody. Tissue: Mouse Brain hippocampus. Primary Antibody: Kv2.1 antibody at 1 µg/mL for 1h at RT. Secondary antibody: Peroxidase mouse secondary at 1:10,000 for 45 min at RT. Localization: membrane. Staining: Kv2.1 as brown signal.



Western Blotting

Image 2. Kv2.1 Western Blot. Western Blot of mouse anti-Kv2.1 antibody. Lane 1: Rat Brain Membrane Tissue. Primary antibody: Kv2.1 antibody at 1:1000 for overnight at 4°C. Secondary antibody: Goat anti-mouse IgG HRP secondary antibody at 1:10,000 for 45 min at RT. Block: 5% Blotto overnight 4°C. Predicted/Observed size: 95.6 kDa/105-125kDa (varies with cell background due to phosphorylation). Other band(s): none.