

Datasheet for ABIN6658239
anti-KCND2 antibody (Extracellular Domain)



[Go to Product page](#)

2 Images

1 Publication

Overview

Quantity:	100 µg
Target:	KCND2
Binding Specificity:	Extracellular Domain
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This KCND2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Fluorescence Microscopy (FM)

Product Details

Purpose:	Kv4.2 K+ channel Antibody
Immunogen:	Kv4.2 K+ channel Antibody was produced in mice by repeated immunizations raised against a synthetic peptide corresponding to an extracellular S1-S2 loop region of rat Kv4.2.
Clone:	S57-1
Isotype:	IgG1
Purification:	Anti-Kv4.2 K+ channel Antibody was purified by Protein G chromatography.
Sterility:	Sterile filtered

Target Details

Target:	KCND2
Alternative Name:	Kcnd2 (KCND2 Products)
Background:	<p>Synonyms: RK5, Kv4.2, Shal1, Kcnd2, Potassium voltage-gated channel subfamily D member 2, Voltage-gated potassium channel subunit Kv4.2</p> <p>Background: The Kv4.2 potassium channel is a voltage-gated channel protein which belongs to the delayed rectifier class and to the Shal potassium channel subfamily. All of the KV channels can product delayed-rectifier and transient "A-type" currents, all members of the KV4 subfamily mediate IA. Kv4 channels in the central nervous system localize to the soma and dendrites, and therefore are responsible for the somato-dendritic A-type K⁺ current (ISA).</p> <p>Gene Name: Kcnd2</p>
Gene ID:	65180
NCBI Accession:	NP_113918
UniProt:	Q63881

Application Details

Application Notes:	<p>Immunoprecipitation_Dilution: User Optimized</p> <p>Immunohistochemistry_Dilution: 0.1-1.0 µg/mL</p> <p>IF_Microscopy_Dilution: 1.0-10 µg/mL</p> <p>Western_Blot_Dilution: 1 µg/mL</p>
Comment:	Anti-Kv4.2 K ⁺ channel Antibody is tested for use in WB, IP, and IHC. Expect a band approximately ~75-80kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Restrictions:	For Research Use only

Handling

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

Handling

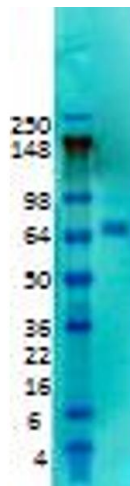
standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiry Date: 12 months

Publications

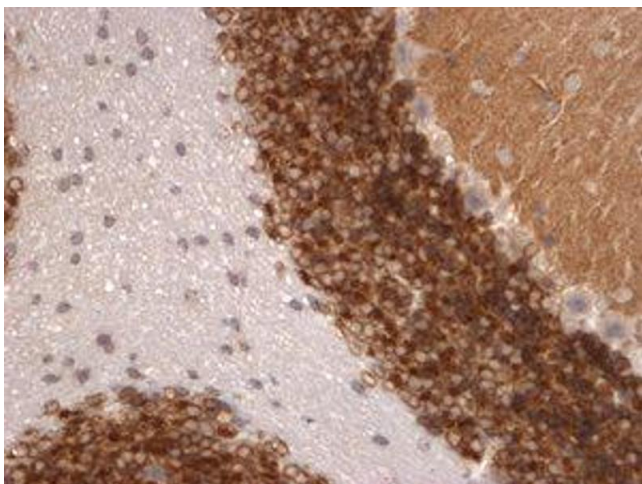
Product cited in: Peng, Tran, Krishnaswamy, Kostadinov, Martersteck, Sanes: "Satb1 Regulates Contactin 5 to Pattern Dendrites of a Mammalian Retinal Ganglion Cell." in: **Neuron**, Vol. 95, Issue 4, pp. 869-883.e6, (2017) ([PubMed](#)).

Images



Western Blotting

Image 1. Kv4.2 K⁺ Channel Western Blot. Western Blot of mouse anti-Kv4.2 K⁺ Channel antibody. Lane 1: Rat Brain Membrane Tissue. Primary antibody: Kv4.2 K⁺ Channel 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% Biotin overnight 4°C. Predicted/Observed size: 65.8 kDa/110kDa. Other band(s): none.



Immunohistochemistry

Image 2. Kv4.2K⁺ Channel Immunohistochemistry. Immunohistochemistry of mouse anti-Kv4.2 K⁺ Channel antibody. Tissue: Mouse Cerebellum. Primary Antibody: Kv4.2 K⁺ Channel antibody at 1 µg/mL for 1h at RT. Secondary antibody: Peroxidase mouse secondary at 1:10,000 for 45 min at RT. Localization: Cell membrane and dendrite. Staining: Kv4.2 K⁺ Channel as brown signal.