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Datasheet for ABIN7117721 anti-KCNAB1 antibody

Overview

Quantity:	100 µg
Target:	KCNAB1
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCNAB1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	potassium voltage-gated channel, shaker-related subfamily, beta member 1
Isotype:	IgG
Purification:	Immunogen affinity purified
Purity:	≥95 % as determined by SDS-PAGE

Target Details

Target:	KCNAB1
Alternative Name:	KCNAB1 (KCNAB1 Products)
Background:	Synonyms:KCNAB1 Background:Cytoplasmic potassium channel subunit that modulates the characteristics of the channel-forming alpha-subunits(PubMed:7499366, PubMed:7603988, PubMed:17156368, PubMed:17540341, PubMed:19713757). Modulates action potentials via its effect on the pore-forming alpha subunits(By similarity). Promotes expression of the pore-

Target Details

forming alpha subunits at the cell membrane, and thereby increases channel activity(By similarity). Mediates closure of delayed rectifier potassium channels by physically obstructing the pore via its N-terminal domain and increases the speed of channel closure for other family members(PubMed:9763623). Promotes the closure of KCNA1, KCNA2 and KCNA5 channels(PubMed:7499366, PubMed:7890032, PubMed:7603988, PubMed:7649300, PubMed:8938711, PubMed:12077175, PubMed:12130714, PubMed:15361858, PubMed:17540341, PubMed:19713757). Accelerates KCNA4 channel closure(PubMed:7890032, PubMed:7649300, PubMed:7890764, PubMed:9763623). Accelerates the closure of heteromeric channels formed by KCNA1 and KCNA4(PubMed:17156368). Accelerates the closure of heteromeric channels formed by KCNA2, KCNA5 and KCNA6(By similarity). Isoform KvB1.2 has no effect on KCNA1, KCNA2 or KCNB1(PubMed:7890032, PubMed:7890764). Enhances KCNB1 and KCNB2 channel activity(By similarity). Binds NADPH, this is required for efficient down-regulation of potassium channel activity(PubMed:17540341). Has NADPH-dependent aldoketoreductase activity(By similarity). Oxidation of the bound NADPH strongly decreases N-type inactivation of potassium channel activity(By similarity).

Molecular Weight: 68 kDa

Gene ID: 7881

UniProt: [Q14722](#)

Application Details

Application Notes: WB: 1:500-1:2000, IHC: 1:20-1:200, IF: 1:20-1:200

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: PBS with 0.02 % sodium azide and 50 % glycerol pH 7.3,

Preservative: Sodium azide

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

Storage: -20 °C

Storage Comment: -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

Handling

Expiry Date: 12 months