

## anti- KCNAB1 antibody

### Product Information

Catalog No.:	FNab04478
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

### 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-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).

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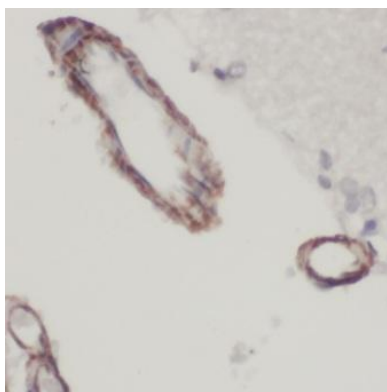
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### Immunogen information

Immunogen: potassium voltage-gated channel, shaker-related subfamily, beta member 1  
Synonyms: KCNA1B  
Observed MW: 68 kDa  
UniprotID : Q14722

### Application

Reactivity: Human, Mouse, Rat  
Tested Application: ELISA, WB, IHC, IF  
Recommended dilution: WB: 1:500-1:2000; IHC: 1:20-1:200; IF: 1:20-1:200  
Image:



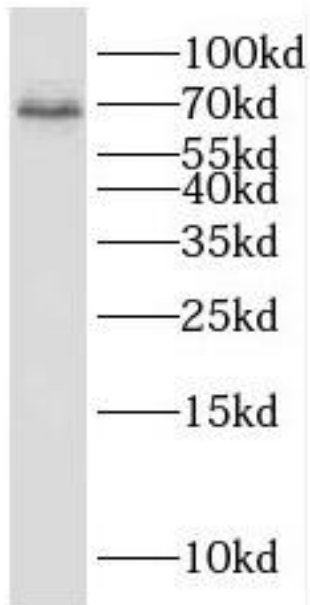
Immunohistochemistry of paraffin-embedded human brain using FNab04478(KCNAB1 antibody) at dilution of 1:100

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mouse heart tissue were subjected to SDS PAGE followed by western blot with FNab04478(KCNAB1 antibody) at dilution of 1:1500