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℃ for 12 months(Avoid repeated freeze / thaw cycles.)

Background

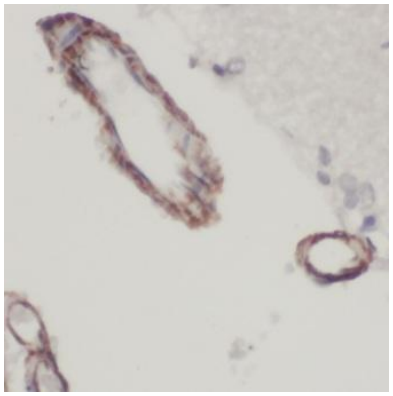
Cytoplasmic potassium channel subunit that modulates the characteristics of the channel-forming alpha-subunits(PubMed:7499366, PubMed:7603988, PubMed:17156368,PubMed:17540341, PubMed:19713757). Modulates action potentials via its effect on the pore-forming alpha subunits(By similarity). Promotes expression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

Immunogen information

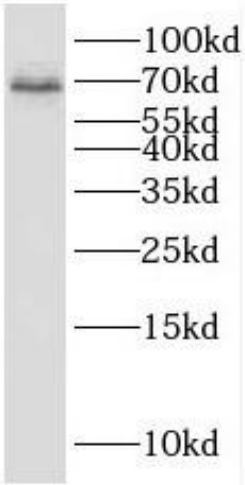
Immunogen:	potassium voltage-gated channel, shaker-related subfamily, beta member 1
Synonyms:	Voltage-gated potassium channel subunit beta-1|K(+) channel subunit beta-1|Kv-beta-1|KCNAB1|KCNA1B
Observed MW:	68 kDa
Uniprot ID :	Q14722

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



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