

Rabbit anti-Human, Mouse KCNAB1 Polyclonal Antibody | anti-KCNAB1 antibody

KCNAB1 Antibody

CATALOG # AAA234074	HOST Rabbit	REACTIVITY Human, Mouse	APPLICATIONS Immunofluorescence, Immunohistochemistry, Western Blot, ELISA
-------------------------------	-----------------------	-----------------------------------	--

PRODUCT SYNONYMS

KCNAB1; Polyclonal Antibody; KCNAB1 Antibody; Voltage-gated potassium channel subunit beta-1 (EC 1.1.1.-); K(+) channel subunit beta-1; Kv-beta-1; KCNA1B; anti-KCNAB1 antibody

PRODUCT SPECIFICATIONS

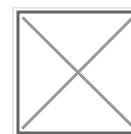
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	>95%, Protein G purified
Form/Format	Liquid
Sequence Length	390
Applicable Applications for anti-KCNAB1 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Immunogen	Recombinant Human Voltage-gated potassium channel subunit beta-1 protein (287-401AA)
Conjugation	Non-conjugated
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Species	Homo sapiens (Human)
Research Area	Neuroscience
Target Names	KCNAB1
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.

IMAGES



IF (Immunofluorescence)

Immunofluorescence staining of HepG2 cells with AAA234074 at 1:66, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IHC (Immunohistochemistry)

IHC image of AAA234074 diluted at 1:200 and staining in paraffin-embedded human brain tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4 degree C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



IHC (Immunohistochemistry)

IHC image of AAA234074 diluted at 1:200 and staining in paraffin-embedded human pancreatic cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4 degree C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



WB (Western Blot)

Western BlotPositive WB detected in: Mouse kidney tissue, U87 whole cell lysate, SH-SY5Y whole cell lysateAll lanes: KCNAB1 antibody at 3.9ug/mlSecondaryGoat polyclonal to rabbit IgG at 1/50000 dilutionPredicted band size: 47, 45, 46 KDaObserved band size: 60 KDa

ADDITIONAL INFORMATION

Related Product Information for anti-KCNAB1 antibody	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).
Product Categories/Family for anti-KCNAB1 antibody	Neuroscience

NCBI AND UNIPROT INFORMATION

NCBI GI #	815891055
NCBI GeneID	7881
NCBI Accession #	NP_001295146.1
NCBI GenBank Nucleotide #	NM_001308217.1
UniProt Accession #	Q14722; Q13031; Q13302; Q16547; Q6PI60; Q99869; A8K9H8; A8KAD4; B3KPZ4
Molecular Weight	45,492 Da
NCBI Official Full Name	voltage-gated potassium channel subunit beta-1 isoform 4
NCBI Official Synonym Full Names	potassium voltage-gated channel subfamily A member regulatory beta subunit 1
NCBI Official Symbol	KCNAB1
NCBI Official Synonym Symbols	hKvb3; AKR6A3; KCNA1B; Kvb1.3; hKvBeta3; KV-BETA-1
NCBI Protein Information	voltage-gated potassium channel subunit beta-1
UniProt Protein Name	Voltage-gated potassium channel subunit beta-1
UniProt Gene Name	KCNAB1
UniProt Synonym Gene Names	KCNA1B

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/kcnab1-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/234074>