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PRODUCT DATASHEET

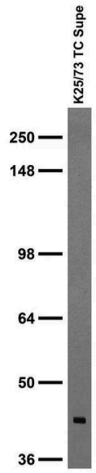
Anti-Pan-Kvbeta Potassium Channel Antibody

Product Details

Available Variants	100 µL (SKU:75-392)
Conjugate	Unconjugated
Isotype	IgG1
Clone	K25/73
Gene Name	Kcnab1 Kvb1 Kcnab3 Ckbeta3 Kcnab2 Ckbeta2 Kcnb3
Host Species	Mouse
Concentration	1 mg/mL
Format	Purified by Protein A chromatography
Physical State	Liquid
Buffer	10 mM Tris, 50 mM Sodium Chloride, 0.065% Sodium Azide pH 7.125
Production Notes	Produced by in vitro bioreactor culture of hybridoma line followed by Protein A affinity chromatography. Purified mAbs are >90% specific antibody.
Applications	ELISA, ICC, IHC, WB
Species Reactivity	Human, Mouse, Rat
Immunogen	Synthetic peptide amino acids 350-367 (EIDSILGNKPYSKKDYRS, C-terminus) of human Kvbeta2 (accession number Q13303)
Specificity	Reacts with Kvbeta1
Molecular Weight	40 kDa
Quality Control	Each new lot of antibody is quality control tested by western blot on rat whole brain lysate and confirmed to stain the expected molecular weight band.

Storage	Aliquot and store at ≤ -20°C for long term storage. For short term storage, store at 2-8°C. For maximum recovery of product, centrifuge the vial prior to removing the cap.
Antibody Registry ID	AB_2491089
UniProt ID	Q13303 UniProt Summary: Regulatory subunit of the voltage-gated potassium (Kv) Shaker channels composed of pore-forming and potassium-conducting alpha subunits and of regulatory beta subunits. The beta-2/KCNAB2 cytoplasmic subunit promotes potassium channel closure via a mechanism that does not involve physical obstruction of the channel pore. Promotes the inactivation of Kv1.4/KCNA4 and Kv1.5/KCNA5 alpha subunit-containing channels. Displays nicotinamide adenine dinucleotide phosphate (NADPH)-dependent aldoketoreductase activity by catalyzing the NADPH-dependent reduction of a wide range of aldehyde and ketone substrates. Substrate specificity includes methylglyoxal, 9,10-phenanthrenequinone, prostaglandin J2, 4-nitrobenzaldehyde, 4-nitroacetophenone and 4-oxo-trans-2-nonenal (in vitro, no physiological substrate identified yet). The binding of oxidized and reduced nucleotide alters Kv channel gating and may contribute to dynamic fine tuning of cell excitability. Contributes to the regulation of nerve signaling, and prevents neuronal hyperexcitability.
Country of Origin	United States
Shipping	Shipped on ice packs
Expiration	24 months from date of receipt
Usage Statement	These antibodies are to be used as research laboratory reagents and are not for use as diagnostic or therapeutic reagents in humans.
NCBI Gene ID	8514

Product Images



Adult rat brain membrane immunoblot