Datasheet for ABIN3043233

anti-KCNN4 antibody (N-Term)

1 Image

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Overview

Quantity:	100 µg
Target:	KCNN4
Binding Specificity:	AA 14-29, N-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCNN4 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-KCNN4 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human KCNN4, different from the related mouse and rat sequences by two amino acids.
Sequence:	RRKRLLEQEK SLAGWA
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-KCNN4 Antibody (ABIN3043233). Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	KCNN4
Alternative Name:	KCNN4 (KCNN4 Products)
Background:	Synonyms: Intermediate conductance calcium-activated potassium channel protein 4,SK4,SKCa 4,SKCa4,IKCa1,IK1,KCa3.1,KCa4,Putative Gardos channel,KCNN4,IK1, IKCA1, KCA4, SK4, Tissue Specificity: Widely expressed in non-excitable tissues. Background: Intermediate conductance calcium-activated potassium channel protein 1 (KCNN4, Kca3.1) is part of a potentially heterotetrameric voltage-independent potassium channel that is activated by intracellular calcium. Activation is followed by membrane hyperpolarization, which promotes calcium influx. KCNN4 may be part of the predominant calcium-activated potassium channel in T-lymphocytes. This gene is similar to other KCNN family potassium channel genes, but it differs enough to possibly be considered as part of a new subfamily. Sequence Similarities: Belongs to the integrin alpha chain family.
Molecular Weight:	48 kDa
UniProt:	O15554

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Human, Mouse, Rat 1. Joiner WJ, Wang LY, Tang MD, Kaczmarek LK. Joiner,W.J., Wang,L.Y., Tang,M.D. and Kaczmarek,L.K. hSK4, a member of a novel subfamily of calcium-activated potassium channels. Proc. Natl. Acad. Sci. U.S.A.1997, 94 (20), 11013-11018. 2. Hoffman JF, Joiner W, Nehrke K, Potapova O, Foye K, Wickrema A. The hSK4 (KCNN4) isoform is the Ca2+-activated K+ channel (Gardos channel) in human red blood cells. Proc. Natl. Acad. Sci. U.S.A.2003, 100 (12), 7366-7371. 3. Jones HM, Hamilton KL, Papworth GD, Syme CA, Watkins SC, Bradbury NA, Devor DC. Role of the NH2 terminus in the assembly and trafficking of the intermediate conductance Ca2+-activated K+ channel hIK1. J. Biol. Chem.2004, 279 (15), 15531-15540.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Expiry Date:	12 months

Images

Western Blotting

Image 1. Anti-KCNN antibody, Western blotting All lanes: Anti KCNN() at 0.5ug/ml WB: HUT Whole Cell Lysate at 40ug Predicted bind size: 60KD Observed bind size: 60KD