

Datasheet for ABIN7599358
anti-KCNN4 antibody (AA 1-400)



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Overview

Quantity:	100 µg
Target:	KCNN4
Binding Specificity:	AA 1-400
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCNN4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Anti-KCNN4 Antibody Picoband®
Immunogen:	E.coli-derived human KCNN4 recombinant protein (Position: M1-A400).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-KCNN4 Antibody Picoband® (ABIN7599358). Tested in ELISA, WB applications. This antibody reacts with Human. 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.
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-excitabile 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.
Molecular Weight:	45 kDa
Gene ID:	3783
UniProt:	O15554

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human ELISA, 0.1-0.5 µg/mL, - 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.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
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Handling

Reconstitution:	Adding 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, 0.2 mg Na ₂ HPO ₄ .
Storage:	4 °C, -20 °C
Storage Comment:	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 freezing and thawing.