

Anti-KCNK13 Antibody Picoband®

Catalog Number: A14190-1

About KCNK13

Potassium channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. This gene encodes a potassium channel containing two pore-forming domains. This protein is an open channel that can be stimulated by arachidonic acid and inhibited by the anesthetic halothane.

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Overview

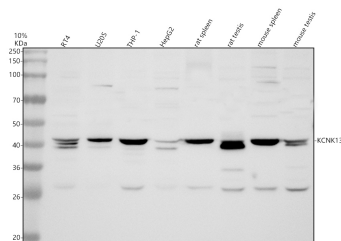
Product Name	Anti-KCNK13 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-KCNK13 Antibody Picoband® catalog # A14190-1. Tested in WB, IP, ELISA applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees 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.
Application	ELISA, IP, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	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.
Host	Rabbit
Uniprot ID	Q9HB14

Technical Details

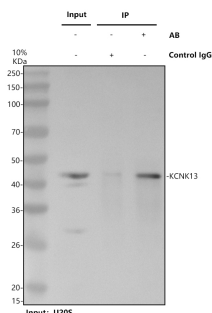
Immunogen	E.coli-derived human KCNK13 recombinant protein (Position: E42-M346).
Form	Lyophilized

Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat Immunoprecipitation, 0.5-2 ug/ml, Human ELISA, 0.1-0.5 ug/ml

Anti-KCNK13 Antibody Picoband® (A14190-1) Images



Western blot analysis of KCNK13 using anti-KCNK13 antibody (A14190-1). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human RT4 whole cell lysates, Lane 2: human U2OS whole cell lysates, Lane 3: human THP-1 whole cell lysates, Lane 4: human HepG2 whole cell lysates, Lane 5: rat spleen tissue lysates, Lane 6: rat testis tissue lysates, Lane 7: mouse spleen tissue lysates, Lane 8: mouse testis tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-KCNK13 antigen affinity purified polyclonal antibody (A14190-1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for KCNK13 at approximately 45 kDa. The expected band size for KCNK13 is at 45 kDa.



Immunoprecipitating KCNK13 in U2OS whole cell lysate. Western blot analysis of KCNK13 using anti-KCNK13 antibody (A14190-1). Lane 1: U2OS whole cell lysates (30ug), Lane 2: Rabbit control IgG instead of anti-KCNK13 antibody in U2OS whole cell lysate, Lane 3: anti-KCNK13 antibody (2ug) + U2OS whole cell lysate (500ug). After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-KCNK13 antigen affinity purified polyclonal antibody (A14190-1) at a dilution of 0.5 ug/mL and probed with a mouse anti-rabbit IgG-HRP secondary antibody (Catalog # BM2007). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for KCNK13 at approximately 45 kDa. The expected band size for KCNK13 is at 45 kDa.

Anti-KCNK13 Antibody

For Research Use Only. Not for use in diagnostic procedures.