

Anti-Kv1.4/KCNA4 Antibody

Catalog Number: PA2297

About KCNA4

Potassium voltage-gated channel subfamily A member 4, also known as Kv1.4 or PCN2, is a protein that in humans is encoded by the KCNA4 gene. This gene encodes a member of the potassium channel, voltage-gated, shaker-related subfamily. It is mapped to 11p14.1. KCNA4 belongs to the A-type potassium current class, the members of which may be important in the regulation of the fast repolarizing phase of action potentials in heart and thus may influence the duration of cardiac action potential. KCNA4 also contributes to the cardiac transient outward potassium current (Ito1), the main contributing current to the repolarizing phase 1 of the cardiac action potential. This gene has been shown to interact with DLG4, KCNA2 and DLG1.

Overview

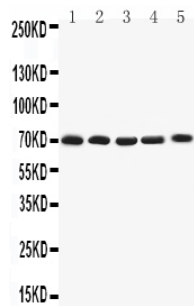
Product Name	Anti-Kv1.4/KCNA4 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Kv1.4/KCNA4 Antibody catalog # PA2297. Tested in WB applications. This antibody reacts with Human, Mouse, Rat.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Storage Instructions	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.
Host	Rabbit
Uniprot ID	P22459

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Kv1.4, different from the related mouse and rat sequences by one amino acid.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized

Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Human, Rat, Mouse</p>

Anti-Kv1.4/KCNA4 Antibody (PA2297) Images



Anti-Kv1.4 antibody, PA2297, All Western blotting
All lanes: Anti-KCNA4(PA2297) at 0.5ug/ml
Lane 1: Rat Brain Tissue Lysate at 40ug
Lane 2: HY1080Whole Cell Lysate at 40ug
Lane 3: PANC Whole Cell Lysate at 40ug
Lane 4: U87 Whole Cell Lysate at 40ug
Lane 5: SHG Whole Cell Lysate at 40ug
Predicted bind size: 70KD
Observed bind size: 70KD

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