

## Anti-Kv1.1 potassium channel/KCNA1 Antibody

Catalog Number: PA2296

### About KCNA1

Potassium voltage-gated channel subfamily A member 1, also known as Kv1.1, is a shaker related voltage-gated potassium channel that in humans is encoded by the KCNA1 gene. It is mapped to 12p13.32. The protein functions as a potassium selective channel through which the potassium ion may pass through in consensus with the electrochemical gradient. The N-terminus of the channel is associated with beta subunits that can modify the inactivation properties of the channel as well as affect expression levels. The C-terminus of the channel is complexed to a PDZ domain protein that is responsible for channel targeting.

### Overview

Product Name	Anti-Kv1.1 potassium channel/KCNA1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Kv1.1 potassium channel/KCNA1 Antibody catalog # PA2296. 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 Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> .
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	Q09470

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Kv1.1 potassium channel, different from the related mouse sequence by two amino acids, and from the related rat sequence by four amino acids .
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, Mouse, Rat</p>

## Anti-Kv1.1 potassium channel/KCNA1 Antibody (PA2296) Images



Anti-Kv1.1 potassium channel antibody, PA2296, All Western blotting

All lanes: Anti-KCNA1(PA2296) at 0.5ug/ml

Lane 1: Rat Brain Tissue Lysate at 40ug

Lane 2: Rat Testis Tissue Lysate at 40ug

Lane 3: Rat Cardiac Muscle Tissue Lysate at 40ug

Lane 4: HELA Whole Cell Lysate at 40ug

Lane 5: U87 Whole Cell Lysate at 40ug

Lane 6: SHG Whole Cell Lysate at 40ug

Lane 7: NEURO Whole Cell Lysate at 40ug

Predicted bind size: 56KD

Observed bind size: 56KD

## 1 Publications Citing This Product

1. PubMed ID: 10.1002/jnr.25001, Adult-onset hypothyroidism causes mechanical hypersensitivity due to peripheral nerve hyperexcitability based on voltage-gated potassium channel downregulation in male mice

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