

# 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 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	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



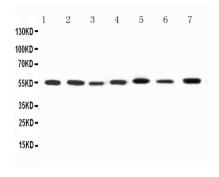




Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.  If the expected range of concentration is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



## 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

Visit bosterbio.com/anti-kv1-1-potassium-channel-antibody-pa2296-boster.html to see all 1 publications.

## Submit a product review to Biocompare.com





Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.

Anti-Kv1.1 potassium channel/KCNA1 Antibody