

Basic Information

Product Name	Anti-Kv1.1/KCNA1 Antibody
Gene Name	KCNA1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.
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
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	56,90 kDa
Dilution Ratios	Western blot (WB):1:500-2000

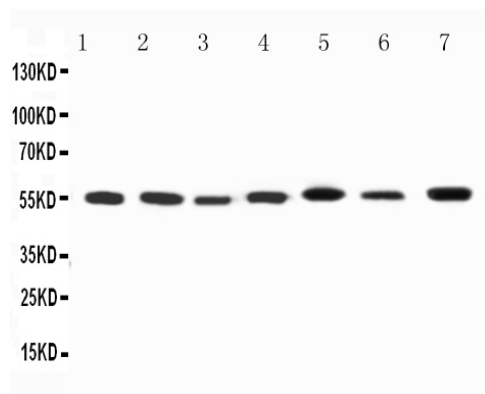
Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

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.

Selected Validation Data



Western blot analysis of Kv1.1/KCNA1 using anti-Kv1.1/KCNA1 antibody (BA3431-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: Rat brain tissue lysates,

Lane 2: Rat testis tissue lysates,

Lane 3: Rat cardiac muscle tissue lysates,

Lane 4: HELA whole cell lysates,

Lane 5: U87 whole cell lysates,

Lane 6: SHG whole cell lysates,

Lane 7: NEURO whole cell lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-Kv1.1/KCNA1 antigen affinity purified polyclonal antibody (BA3431-2) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Kv1.1/KCNA1 at approximately 56,90 kDa. The expected band size for Kv1.1/KCNA1 is at 56 kDa.