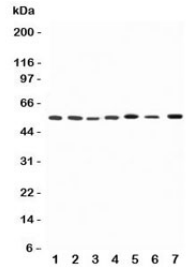
Kv1.1 Antibody / KCNA1 (R31420)

Catalog No.	Formulation	Size
R31420	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	Q09470
Applications	Western blot: 0.5-1ug/ml
Limitations	This Kv1.1 antibody is available for research use only.



Western blot testing of Kv1.1 antibody and Lane 1: rat brain; 2: (r) testis; 3: (r) heart; 4: human HeLa; 5: (h) U87; 6: (h) SHG-44; 7: mouse Neuro-2a lysate. Expected molecular weight: 56-85 kDa depending on glycosylation level.

Description

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.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Kv1.1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human Kv1.1 (IAHYRQVNIRTANCTTA) was used as the immunogen for this Kv1.1 antibody.

Storage

After reconstitution, the Kv1.1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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