

Anti-K_v1.1

(Voltage-gated K⁺ channel subfamily A member 1, Kcna1)

Product #: APC-009

Current Lot # AN-06

Host: Rabbit.

Type: Polyclonal.

Epitope: GST fusion protein with sequence HRETEGEEQAQLLHV SSPNLASDSDLRRSSSTISKSEYMEIEEDMNSIAHYRQANIRT GNCTTADQNCVNKSKLLTDV, corresponding to residues 416-495 of mouse Kv1.1 (Accession [P16388](#)).

Epitope location: Intracellular, C-terminus.

Homology with other species: Rat, human, *Xenopus* - respectively, 78/80, 76/80, and 70/80 residues identical.

Reactivity Confirmed: Rat, mouse.

Identity of a fusion protein: Confirmed by DNA sequence and SDS-PAGE.

Purity: the serum was depleted of anti-GST antibodies by affinity chromatography on immobilized GST and from antibodies cross-reactive to Kv1.2 by affinity chromatography on immobilized Kv1.2-GST-fusion protein, and then the antibody was affinity purified on immobilized Kv1.1-GST.

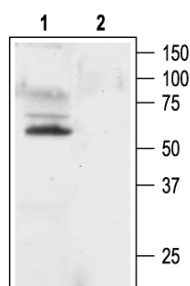
Sample Sizes: 50 µl or 0.2 ml after reconstitution of the lyophilized powder.

Storage before Reconstitution: Lyophilized powder can be stored intact at room temperature for several weeks. For longer periods, it should be stored at -20°C.

Reconstitution: 50 µl or 0.2 ml deionized water, depending on the sample size.

Antibody Concentration after Reconstitution: 0.75 mg/ml.

Buffer after Reconstitution: phosphate buffered saline (PBS), pH 7.4, 1% BSA, 0.025% NaN₃.



Western blotting of rat brain membranes:

1. Anti- Kv1.1 (1:200)
2. Anti- Kv1.1, preincubated with the control antigen.

Storage after Reconstitution: the reconstituted solution can be stored at 4°C for up to 2 weeks. For longer periods, small aliquots should be stored at -20°C or below. Avoid multiple freezing and thawing. The further dilutions should be made using a carrier protein such as BSA (1%). Centrifuge **all** antibody preparations before use (10000 × g 5 min).

Control Antigen Included: lyophilized fusion protein (Mw 36 kDa).

Control Antigen Storage before Reconstitution: Lyophilized powder can be stored intact at room temperature for several weeks. For longer periods, it should be stored at -20°C.

Control Antigen Reconstitution: 100 µl PBS.

Control Antigen Storage after Reconstitution: -20 °C.

Preadsorption Control: 3 µg fusion protein per 1 µg antibody.

Positive control in Western blotting: 20 ng fusion protein/Minigel lane.

Standard Quality Control of Each Lot: Western blotting.

Applications:

Western Blotting: Rat brain membranes (1:200).

Immunohistochemistry: Rat brain sections (see also 1,2,4,5,8,9).

Immunoprecipitation.¹⁰

For research purposes only, not for human use.

Last Update: February 13, 2007.

References using this antibody:

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2. England, J.D. *et al.* (1998) *Neurosci. Lett.* **255**, 37.
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5. Nashmi, R. *et al.* (2000) *Eur. J. Neurosci.* **12**, 491.
6. Singer-Lahat, D. *et al.* (2000) *Eur. J. Physiol.* **440**, 627.
7. Keren-Raiman, T. *et al.* (2000) *Biochem Biophys. Res. Commun.* **274**, 852.
8. Chung, Y.H. *et al.* (2000) *Brain Res.* **875**, 164.
9. Ouadid-Ahidouch, H., *et al.* (2000) *Biochem. Biophys. Res. Commun.* **278**, 272.
10. Fili, O., *et al.* (2001) *J. Neurosci.* **21**, 1964.
11. Chittajallu, R. *et al.* (2002) *PNAS* **99**, 2350.
12. McCormack, K. *et al.* (2002) *J. Biol. Chem.* **277**, 13219.
13. Ji, J. *et al.* (2002) *J. Biol. Chem.* **277**, 20195.
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