

Anti-Kv1.2 (Kcna2)

Product #: APC-010
Current Lot #: AN-08
Host: Rabbit.
Type: Polyclonal.

Epitope: GST fusion protein with sequence YHRETEGEEQAQYL QVTSCPPIPSSPDLKKRSASTISKSDYMEIQEGVNNNSNEDFREEEN LKTANCTLANTNYVNITKML TDV, corresponding to residues 417-499 of rat Kv1.2 (Accession [P15386](#)).

Epitope location: Intracellular, C-terminus.

Homology with other species: Mouse, dog, human, - identical.

Reactivity Confirmed: Rat, mouse.

Identity of the 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 cross-reactive antibodies by affinity chromatography on immobilized Kv1.1-GST-fusion protein and Kv1.4-GST-fusion protein. The antibody was then affinity purified on immobilized Kv1.2-GST.

Sample Sizes: 50 μ l 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 μ l or 0.2 ml deionized water, depending on the sample size.

Antibody Concentration after Reconstitution:
0.8 mg/ml.

Buffer after Reconstitution: phosphate buffered saline (PBS), pH 7.4, 1% BSA, 5% sucrose, 0.025% NaN₃.

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 \times g 5 min).

Control Antigen Included.

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 μ l PBS.

Control Antigen Storage after Reconstitution: -20°C.

Preadsorption Control: 3 μ g fusion protein per 1 μ g antibody.

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

Standard Quality Control of Each Lot: Western blotting.

Applications:

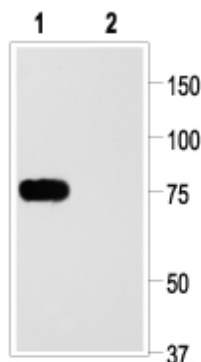
Western Blotting: Rat brain membranes (1:200-1:400) and rat heart membranes (1:200).

Immunohistochemistry: Rat brain sections (see also 6-8).

Additional described applications: Immunoprecipitation⁴, Neutralization⁵, Immunocytochemistry^{10,11}.

For research purposes only, not for human use.

Last Update: July 14, 2008.

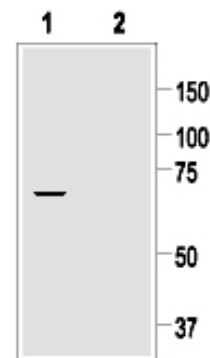


Western blotting of rat brain membranes:

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

References using this antibody:

1. Wang, J. *et al.* (1997) *J. Clin. Invest.*, **9**, 2347.
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5. Arroyo, E.J. *et al.* (1999) *J. Neurocytol.* **28**, 333.
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12. Felix, R. *et al.* (2002) *Zygote* **10**, 183.
13. Popratiloff, A. *et al.* (2003) *J. Comparative Neurology* **461**, 466.
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17. Karimi-Abdolrezaee, *et al.* (2004) *Eur. J. Neurosci.* **19**, 577.
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19. Wang, J. *et al.* (2005) *Am. J. Physiol. Lung Mol. Cell Physiol.* **288**, L1049.
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23. Rivera, J. *et al.* (2007) *Eur. J. Neurosci.* **25**, 136.
24. Susuki, K. *et al.* (2007) *Glia* **55**, 746.
25. Neshatian, L. *et al.* (2007) *Am. J. Physiol. Gastrointest. Liver Physiol.* **292**, G1233.
26. Cox, R.H. *et al.* (2008) *Am. J. Hypertens.* **21**, 213.



Western blotting of rat heart membranes:

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