

Anti-Kv1.5 (Kcna5)

Product #: APC-004

Current Lot #: AN-06, AN-07, AN-08

Host: Rabbit.

Type: Polyclonal.

Epitope: GST fusion protein with sequence HRETD HEEQA ALKEE QGIQR RESGL DTGGQ RKVSC SKASF HKTGG PLEST DSIRR GSCPL EKCHL KAKSN VDLRR SLYAL CLDTS RETDL, corresponding to residues 513-602 of mouse Kv1.5 (Accession [Q61762](#)).

Epitope location: Intracellular, C-terminus.

Homology with other species: Rat, rabbit, human, bovine, dog - respectively, 86/90, 71/90, 70/90, 66/90, and 66/90 residues identical.

Reactivity Confirmed: Rat.

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

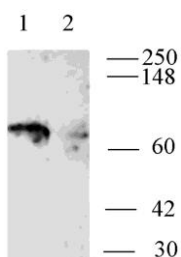
Purity: the serum was depleted of anti-GST antibodies by affinity chromatography on immobilized GST and from antibodies cross-reactive to other Kv1 by affinity chromatography on immobilized Kv1.3-GST-fusion proteins, and then the antibody was affinity purified on immobilized Kv1.5-GST.

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: 0.6 mg/ml.



Western blotting of rat brain membranes:

1. Anti-Kv1.5 (1:100).
2. Anti-Kv1.5, preincubated with the control antigen.

Buffer after Reconstitution: phosphate buffered saline (PBS), pH 7.4, 1% BSA, 5% sucrose, 0.05% 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 × g 5 min).

Control Antigen Included: 120 µg of lyophilized fusion protein (MW 37 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 (1:200-1:400).

Immunohistochemistry: Rat brain sections (see also 9).

Immunoprecipitation.^{5,7}

For research purposes only, not for human use.

Last Update: September 30, 2007.

References using this antibody:

1. Hu, X.Q. *et al.* (1998) *J. Biol. Chem.* , **273**, 5337.
2. Guo, W. *et al.* (1997) *Am. J. Physiol.* **272**, H2599.
3. Guo, W. *et al.* (1997) *Eur. J. Physiol.* **434**, 206.
4. Clement-Chomienne, O. *et al.* (1999) *J. Physiol.* **515.3**, 653.
5. Sobko, A. *et al.* (1998) *J. Neuroscience* **18**, 10398.
6. Sobko, A *et al.* (1998) *EMBO J.* **17**, 4723.
7. Maruoka, N.D. *et al.* (2000) *FEBS Letters* **473**, 188.
8. Yamashita, T. *et al.* (2000) *Circulation* **101**, 2007.
9. Chung, Y.H. *et al.* (2000) *Brain Res.* **875**, 164.
10. Peretz, A. *et al.* (2000) *The EMBO J.* **19**, 4036.