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Molecular Tools for the Life Science Community

Certificate of Analysis

Anti-Kv1.4

(Kcna4)

Product #: APC-007

Current Lot #: AN-06

Host: Rabbit.

Type: Polyclonal.

Epitope: GST fusion protein with sequence PYLPS NLLKK FRSSST SSSLG DKSEY LEMEE GVKES LCGKE EKCQG KGDDS ETDKN NCSNA KAVET DV, corresponding to residues 589-655 of rat Kv1.4 (Accession [P15385](#)).

Epitope location: Intracellular, C-terminus.

Homology with other species: Mouse - identical; human - 66/67 (or 65/67) residues identical, bovine - 64/67 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 on possible cross-reactive antibodies to other Kv1 on immobilized homologous region of Kv1.1-GST, and then the antibody was affinity purified on immobilized Kv1.4-GST.

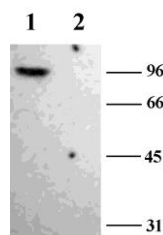
Sample Sizes: 50 µl or 0.2 ml after reconstitution of the lyophilized powder.

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:

0.3 mg/ml.



Western blotting of rat brain membranes:

1. Anti-Kv1.4 (1:200).
2. Anti-Kv1.4, preincubated with the control antigen.

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 × g 5 min).

Control Antigen Included: 50 µg of lyophilized fusion protein (Mw 35 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 7-9).

For research purposes only, not for human use.

Last Update: April 3, 2001.

References using this antibody:

1. Attali, B., *et al.* (1997) *J. Neurosci.* **17**, 8234.
2. Guo, W. *et al.* (1997) *Eur. J. Physiol.* **434**, 206.
3. Yuan, X.J. *et al.* (1998) *Am. J. Physiol.* **274**, L621.
4. Meiri, N. *et al.* (1998) *Proc. Natl. Acad. Sci. USA* **95**, 15037.
5. Guo, W. *et al.* (1998) *J. Mol. Cell Cardiol.* **30**, 1449.
6. Sobko, A. *et al.* (1998) *J. Neurosci.* **18**, 10398.
7. Mienville, J.M. *et al.* (1999) *J. Neurophysiol.* **82**, 1303.
8. Chung, Y.H. *et al.* (2000) *Brain Res.* **875**, 164.
9. Gopel, S.O. *et al.* (2000) *J. Physiol.* **528.3** 497.