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Molecular Tools for the Life Science Community

Certificate of Analysis

Anti-K_{Ca}2.2 (SK2)

(KCa2, Kcnn2, SKCa2, Apamin-Sensitive Small Conductance Ca^{2+}-dependent K^+ Channel)

Product #: APC-028
Current Lot ##: AN-09
Host: Rabbit.
Type: Polyclonal.

Epitope: (C)ETQMENYDKHVTYNAERS, corresponding to amino acid residues 542-559 of rat SK2 (Accession P70604).

Epitope location: Intracellular, C-terminal part.

Homology with other species: mouse -17/18, human -16/18, chicken- 14/18.

Reactivity Confirmed: rat.

Identity of the peptide: confirmed by mass-spectrography and amino acid analysis.

Purity: affinity purified on immobilized antigen.

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: 0.8 mg/ml.

Buffer after Reconstitution: phosphate buffered saline (PBS), pH 7.4, 1% BSA, 0.025% NaN_3.

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.

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 water.

Control Antigen Storage after Reconstitution: -20 ºC.

Preadsorption Control: 1 µg peptide per 1 µg antibody.

Standard Quality Control of Each Lot: Western blotting.

Applications:
Western Blotting: Rat brain membranes (1:200-1-400).

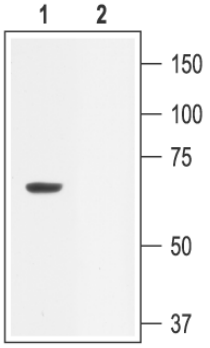
Immunohistochemistry: Rat brain sections.

For research purposes only, not for human use.

Last Update: August 7, 2006.

References using this antibody:

1. Desai, R. *et al.* (2000) *J. Biol. Chem.* **51**, 39954.
2. Conforti, L. *et al.* (2003) *J. Immunol.* **170,** 695.
3. Xu, Y. *et al.* (2003) *J. Biol. Chem.* **278,** 49085.
4. Tamarina, N.A. *et al* (2003) *Diabetes* **52,** 2000.
5. Kramar, E. A. *et al.* (2004) *J. Neurosci.* **24,** 5151.
6. McNeish, A.J. *et al.* (2006) *Stroke* **37,** 1277.
7. Ren, Y. *et al.* (2006) *J. Biol. Chem.* **281,** 11769.



Western blotting of rat brain membranes:
1. Anti-K_{Ca}2.2 antibody (1:200).
2. Anti-K_{Ca}2.2 antibody, preincubated with the control peptide antigen.