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Molecular Tools for the Life Science Community

Certificate of Analysis

Anti-K_v7.3 (KCNQ3)

(Voltage-gated potassium channel QKT subfamily member 3)

Product #: APC-051

Current Lot #: AN-01, AN-02, AN-03.

Host: Rabbit.

Type: Polyclonal.

Epitope: Peptide AEGEKKEDNRYSDLKTIIC, corresponding to amino acid residues 668-686 of rat KCNQ3 (Accession number [O88944](#)).

Epitope location: Intracellular, C-terminal part.

Homology with other species: Mouse – identical; human- 18/19 residues identical.

Specificity: The antibody is specific for KCNQ3, it does not cross react with KCNQ2 or other QKT proteins.

Reactivity Confirmed: Rat.

Identity of a 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, 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.

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 °C.

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).

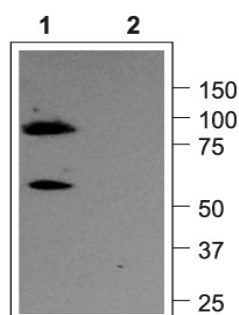
Immunohistochemistry: Rat brain sections.

For research purposes only, not for human use.

Last Update: April 22, 2007.

References using this antibody:

1. Jiang, M. et al. (2004) *Circulation* **109**, 1783.
2. Peretz, A. et al. (2005) *Mol. Pharmacol.* **67**, 1053.
3. Rasmussen, H.B. et al. (2007) *J. Cell Sci.* **120**, 953.



Western blotting of rat brain membranes:

1. Anti-KCNQ3 (1:200)
2. Anti-KCNQ3, preincubated with the control peptide antigen.