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Molecular Tools for the Life Science Community

## Certificate of Analysis

### Anti-K<sub>v</sub>7.1 (KCNQ1)

(Voltage-gated potassium channel QKT subfamily member 1, KvLQT1)

**Product #:** APC-022

**Current Lot #:** AN-03

**Host:** Rabbit.

**Type:** Polyclonal.

**Epitope:** Peptide (C)TYEQLTVPRRGPEDEGS, corresponding to amino acid residues 661-676 of human Kv7.1 (Accession number [P51787](#)).

**Epitope location:** Intracellular, C-terminal part.

**Homology with other species:** Rat and mouse- 14/16 residues identical.

**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:** 0.75 mg/ml.

**Buffer after Reconstitution:** Phosphate buffered saline (PBS), pH 7.4, 1% BSA, 0.025% NaN<sub>3</sub>.

**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:** 2.5 µg peptide per 1 µg antibody.

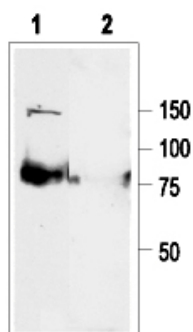
**Standard Quality Control of Each Lot:** Western blotting.

**Applications:**

**Western Blotting:** Rat heart membranes (1:200).

**For research purposes only, not for human use.**

**Last Update:** June 22, 2005.



Western blotting of rat heart membranes:

1. Anti-K<sub>v</sub>7.1 (KCNQ1) (1:200)
2. Anti-K<sub>v</sub>7.1 (KCNQ1), preincubated with the control peptide antigen