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Molecular Tools for the Life Science Community

## Certificate of Analysis

### Anti-hK<sub>v</sub>11.1 (HERG)

*(Voltage gated K<sup>+</sup> channel subfamily H member 2, KCNH2, ether-a-go-go-related channel)*

**Product #:** APC-062

**Current Lot #:** AN-09, AN-10, AN-11, AN-12

**Host:** Rabbit.

**Type:** Polyclonal.

**Epitope:** GST fusion protein with sequence DSLSQ VSQFM ACEEL PPGAPQLPQEGPTRRLSLPGQLGALTSQPLHRHGSDPGS, corresponding to residues 1106-1159 of human K<sub>v</sub>11.1 (HERG) (Accession [Q12809](#)).

**Epitope location:** Intracellular, near the C-terminus.

**Specificity:** The antibody recognizes the HERG1b splice variant but not splice variants HERG1-3 and HERG-4

**Homology with other species:** Rabbit - identical; dog, mouse, rat - respectively, 51/54, 50/54, and 50/54 residues identical.

**Homology with related proteins:** Rat erg2 - 22/54 residues identical; rat erg3 - 21/54 residues identical.

**Reactivity Confirmed:** Human.

**Additional described reactivity:** Mouse<sup>5</sup>, horse<sup>4</sup>.

**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 then anti-HERG antibody was affinity purified on immobilized HERG-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.

**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:** 120 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.

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

**Applications:**

**Western Blotting:** HEK 293-HERG transfected cells (1:200-1:600)

**Immunoprecipitation:** 2-5 µg.

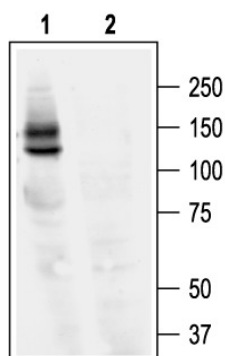
**Immunocytochemistry:** 1:100-1:200.

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

**Last Update:** December 22, 2008.

**References using this antibody:**

1. Pillozzi, S. *et al.* (2002) *Leukemia* **16**, 1791.
2. Smith, G.A.M. *et al.* (2002) *J. Biol. Chem.* **277**, 18528.
3. Paulussen, A. *et al.* (2002) *J. Biol. Chem.* **277**, 48610
4. Finley, M. R. *et al.* (2002) *Am. J. Physiol. Heart Circ. Physiol.* **283**, 126.
5. Shoeb, F. *et al.* (2003) *J. Biol. Chem.* **278**, 2503.
6. Ficker, E. *et al.* (2003) *Circ. Res.* **92**, 87-100.
7. Zicha, S. *et al.* (2003) *Am. J. Physiol. Heart Circ. Physiol.* **285**, H1641.
8. Rossenbacker, T. *et al.* (2005) *Circulation* **111**, 965.
9. Chapman, H. *et al.* (2005) *J. Cell Science* **118**, 5325.
10. Sun, H. *et al.* (2006) *J. Biol. Chem.* **281**, 5877.
11. Nakajima, T. *et al.* (2007) *J. Biol. Chem.* **282**, 5506.
12. Nanduri, J. *et al.* (2008) *Biochem. Biophys. Res. Com.* **373**, 309.
13. Huo, J. *et al.* (2008) *Pflugers Arch* **456**, 917.
14. Roy, J. *et al.* (2008) *Oncol. Rep.* **19**, 1511.



Western blotting of the lysate of HEK 293 cells, stably expressing K<sub>v</sub>11.1:  
1. Anti- K<sub>v</sub>11.1 1:400  
2. Anti- K<sub>v</sub>11.1, preincubated with the control antigen.