

## Anti-K<sub>ir</sub>4.1-ATTO-488

*(Anti-K<sub>ir</sub>4.1 ATTO-488 conjugated polyclonal antibody)*

**Product #:** APC-035-AG

**Current Lot #:** AN-01

**Host:** rabbit.

**Epitope:** peptide (C)KLEESLREQAEKEGSALSVR, corresponding to residues 356-375 of rat Kir4.1 (Accession [P49655](#)).

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

**Homology with other species:** human, mouse - identical.

**Reactivity Confirmed:** rat.

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

**Purity:** affinity purified on immobilized antigen.

**Label:** ATTO-488. Maximum absorption 501 nm; maximum fluorescence 523 nm. The fluorescence is excited most efficiently in the 480 - 515 nm range.

This label is analogous to the well known dye fluorescein isothiocyanate (FITC) and can be used with filters typically used to detect FITC.

**Sample Sizes:** 50 µl 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 of deionized water.

**Antibody Concentration after Reconstitution:** 1 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 x 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.

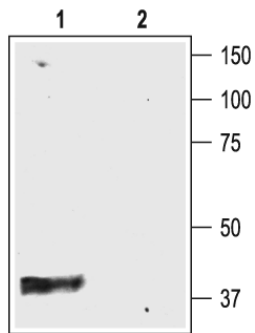
**Standard Quality Control of Each Lot:** Western blot analysis (unlabeled antibody) and immunohistochemistry (labeled antibody).

**Applications:**

**Immunohistochemistry:** Perfusion fixed, frozen floating rat brain sections (1:50).

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

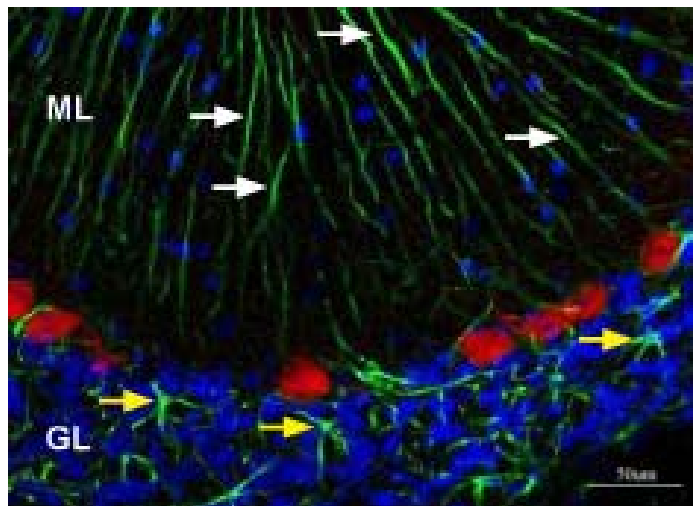
**Last Update:** January 8, 2009.



Western blotting of rat brain membranes using the unlabeled Anti-Kir4.1 antibody (#APC-035):

1. Anti-Kir4.1 (1:400)
2. Anti-Kir4.1, preincubated with the control peptide antigen.

#### Immunohistochemical staining of Kir4.1 in rat cerebellum



Immunohistochemical staining of frozen sections of rat cerebellum using **Anti-Kir4.1-ATTO-488** antibody (#APC-035-AG) (green), (1:50). Staining is specific for Bergmann glial cells prolongations (white arrows) in the molecular layer (ML) and astrocytes (yellow arrows) in the granular layer (GL). Purkinje cell bodies are stained with fluorescent Nissl stain (red). Hoechst 33342 (blue) is used as counterstain.