alomone labs
Headquarters: Alomone Labs Ltd.
Har Hotzvim Hi-Tech Park P.O. Box 4287, Jerusalem 91042, Israel.
Tel: +972-2-587 2202 Fax: +972-2-587 1101 or +972-2-642 6975
email: techsupport@alomone.com http://www.alomone.com

Molecular Tools for the Life Science Community

Certificate of Analysis

Anti-K_v1.5-ATTO-550

(Anti-K_v1.5 ATTO-550 conjugated polyclonal antibody)

Product #: APC-004-AO
Current Lot #: AN-01
Host: Rabbit.
Type: Polyclonal.

Epitope: GST fusion protein with sequence corresponding to residues 513-602 of mouse K_v1.5 (Accession Q61762).

Epitope location: Intracellular, C-terminus.

Homology with other species: Rat, rabbit, human, bovine, dog - respectively, 86/90, 71/90, 70/90, 66/90, and 66/90 residues identical.

Reactivity Confirmed: Rat, mouse.

Identity of 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 from antibodies cross-reactive to other Kv1 by affinity chromatography on immobilized Kv1.3-GST-fusion proteins, and then the antibody was affinity purified on immobilized Kv1.5-GST.

Label: ATTO-550. Maximum absorption 554 nm; maximum fluorescence 576 nm. The fluorescence is excited most efficiently in the 540 - 565 nm range.
This label is related to the well known dye Rhodamine 6G and can be used with filters typically used to detect Rhodamine.

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, 5% sucrose, 0.05% 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: 120 µg of lyophilized fusion protein (MW 37 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 ºC.

Preadsorption Control: 3 µg fusion protein per 1 µg antibody.

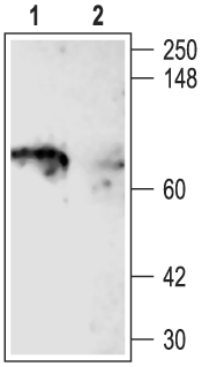
Standard Quality Control of Each Lot: Western blot analysis (unlabeled antibody) and immunohistochemistry (labeled antibody).

Applications:

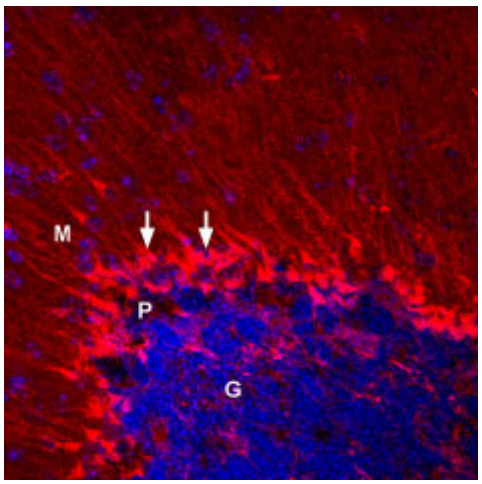
Immunohistochemistry: Perfusion fixed, frozen floating rat and mouse brain sections (1:50).

For research purposes only, not for human use.

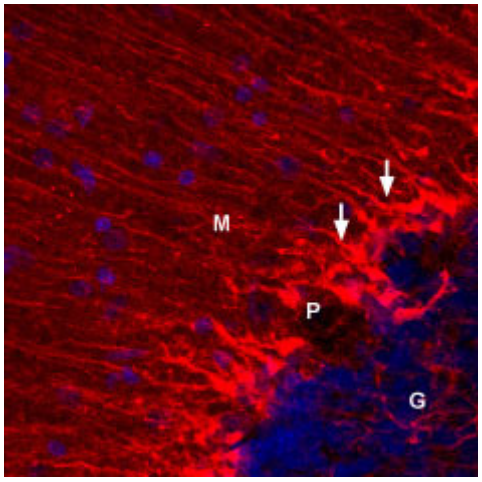
Last Update: May 17, 2009.



Western blotting of rat brain membranes using the **unlabeled Anti-K_v1.5** antibody (APC-004):
1. Anti-Kv1.5 (1:100).
2. Anti-Kv1.5, preincubated with the control antigen.



K_v1.5 expression in mouse cerebellum.
Perfusion fixed, frozen free-floating mouse brain sections were stained with **Anti-K_v1.5-ATTO-550** (1:50) (red). Staining was detected in cerebellar Bergmann glial cells (white arrows). The blue (DAPI) is a counterstain visualizing nuclei of all cells. Abbreviations: G = granule layer, P = Purkinje layer, M = molecular layer.



K_v1.5 expression in rat cerebellum.
Perfusion fixed, frozen free-floating rat brain sections were stained with **Anti-K_v1.5-ATTO-550** (1:50) (red). Staining was detected in cerebellar Bergmann glial cells (white arrows). The blue (DAPI) is a counterstain visualizing nuclei of all cells. Abbreviations: G = granule layer, P = Purkinje layer, M = molecular layer.