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RABBIT ANTI-AGMATINE (GUANIDINIUM ANALOGUE) POLYCLONAL ANTIBODY

CATALOG NUMBER: AB1568-2000T **QUANTITY:** 2000 T (500 µL)

LOT NUMBER:

SPECIFICITY: Agmatine. No detectable cross reactivity with arginine, glutamate or other amino acids.

IMMUNOGEN: Agmatine conjugated to BSA

APPLICATIONS: Immunohistochemistry: 1:100 on 0.1-2.5% glutaraldehyde fixed tissue. Optimal fixation: 0.1-2.5% glutaraldehyde, 1% formaldehyde. Minimum gluteraldehyde: 0.1%. Works on paraffin embedded tissue (fixed with glutaraldehyde) but preferably epoxy embedded - specifically developed for post-embedding protocols.
Immunocytochemistry on cells with glutamate-gated ion channels.
Immunoblotting

AB1568 has been used successfully on retina tissue fixed in 2.5% gluteraldehyde buffer using 250 nm sections. Assay conditions: Living, isolated goldfish retinas were maintained for 10 minutes in an oxygenated physiological solution that preserves normal neuronal activity under constant lighting. The medium also contained 10 mM agmatine. After the incubation period retinas were fixed in a conventional 2.5% glutaraldehyde buffer and processed for immunohisto-chemistry using 250 nm sections probed with a gold labeled secondary antibody. The treated retinas were exposed to 125 M kainate during the incubation. Kainate opens both AMPA and kainate selective ionotropic channels through which agmatine can enter cells.

Optimal working dilutions must be determined by the end user.

FORMAT: Rabbit antisera.

PRESENTATION: Liquid in 100 mM phosphate buffer with 1% goat serum and 0.05% thimerosal.

STORAGE/HANDLING: Store at 2-8°C in undiluted aliquots for up to 6 months after date of receipt.

REFERENCES:

Hille, B. Ionic channels of excitable membranes. (1984) Sinauer Assoc., Sunderland, MA.
Li, et al., *Science* (1994) **263**
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Marc, R.E. et al., *J. Neuroscience* (1995) **15**:5106-5129.
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Steullet, P. et al., *J. Comparative Neurology* (2000) **418**:270-280.

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Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

FOR RESEARCH USE ONLY; NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

28820 Single Oak Drive • Temecula, CA 92590
Technical Support: T: 1-800-MILLIPORE (1-800-645-5476) • F: 1-800-437-7502
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