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MOUSE ANTI-GABA$_A$ RECEPTOR, α-CHAIN MONOCLONAL ANTIBODY

CATALOG NUMBER: MAB339 (formerly Roche Catalog Number 1381440)

LOT NUMBER:

QUANTITY: 100 µg

CONCENTRATION: 1 mg/mL

SPECIFICITY: Reacts with the α-chain of the GABA$_A$ receptor.

IMMUNOGEN: Purified GABA/benzodiazepine receptor from bovine cortex.

ISOTYPE: IgG$_1$

APPLICATIONS: Immunohistochemistry: 10-20 µg/mL * See protocol on back.
Western blot: 20 µg/mL
Immunoprecipitation
Optimal working dilutions must be determined by end user.

SPECIES REACTIVITIES: Bovine and human.

FORMAT: Purified immunoglobulin.

PRESENTATION: Liquid. Buffer = 0.02M Phosphate buffer, 0.25M NaCl with 0.1% sodium azide.

STORAGE/HANDLING: Maintain at +2-8°C in undiluted aliquots for up to 6 months.

REFERENCES:

Eur. J. Pharmacol. (1983) **95**:323-324.
J. Neuroscience (1987) **7(6)**:1866-1886.
Benzodiazepine/GABA Receptors and Chloride Channels: Structural and Functional Properties (1986), Alan R. Liss, 285-297.
Peptides (1986) **7**:155-159.
Lee, Y.L., et al., *Neuroscience Letters* (1998) **248**:29-32.
Gomez, L.L., et al., *J. Neuroscience* (2002) **22**:7027-7044.

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APPLICATION NOTES FOR MAB339

IMMUNOHISTOCHEMISTRY

1) Fresh tissue (human) should be used (3-6 hours postmortem). The tissue should be immersion fixed in 2% paraformaldehyde/0.1% glutaraldehyde. Prepare 50 μm sections and store in cryoprotective solution at -15°C.

2) Sections should be incubated floating in suitable small vials.

3) Block endogenous peroxidase with 100 mmol/L Tris-HCl, 150 mmol/L NaCl, pH 7.4 (Buffer A) containing 3% H_2O_2 (v/v) and 10% methanol for 20 min at room temperature.

4) Wash sections in Buffer A. Incubate sections in Buffer A containing 5% fetal bovine serum (v/v) and 0.1-0.5% Triton X-100 (v/v).

5) Wash sections in Buffer A. Incubate sections with MAB339 (diluted 10-20 μg/mL in Buffer A containing 5% fetal bovine serum (v/v) and 0.1-0.5% Triton X-100 (v/v) for 12-36 hours at +4°C

6) Wash sections in Buffer A.

7) Detect with standard secondary antibody detection system (PAP, ABC, etc.).

8) Wash sections in Buffer A.

9) Mount sections on chrome alum-coated slides, dry, dehydrate, and apply coverslips.

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

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