ImmunoStar Incorporated

PNMT SPECIFICATION SHEET

INTRODUCTION

The histochemical antibody for phenylethanolamine-N-methyltransferase (PNMT) is generated in a rabbit against purified PNMT from bovine adrenal medulla. The antibody is provided as 100 µL of lyophilized whole serum.

CONTROLS

The antibody at a proven 4+ indirect immunofluorescent staining at a 1/400 - 1/800 dilution and a proven 4+ staining using a 1/1000 to 1/2000 dilution with Biotin-Streptavidin/HRP detection method in neurons of the rat brain stem and adrenal medulla. The reaction with rat brain tissue is completely abolished by pre-absorption of the antiserum with bovine adrenal PNMT.

The antiserum has been tested extensively with rat brain tissue and is comparable with PNMT antisera from other sources. The antiserum does not stain cell bodies containing unknown noradrenaline regions such as locus coeruleus and A5 (Dahlström and Fuxe, 1965).

STORAGE AND HANDLING

Preparation: Reconstitute the lyophilized serum with 100 µL of distilled or deionized water.

Storage after reconstitution: Dilute with buffer (phosphate buffered saline or Tris) at dilutions no higher than 1/10, aliquot and freeze at -15°C. or lower.

Stability after reconstitution: Antibody can be stored for up to six months if handled as described above.

SPECIAL INSTRUCTIONS

The antiserum may be usable at a higher dilution. The customer should explore diluting the antibody further to reduce the possibility of high background. Note that a change in the buffering system as used in our protocol may change the configuration of the protein and, therefore, may alter the reactivity with the tissue tested.

Analyte Specific Reagent. Analytical and performance characteristics are not established.

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SCREENING OF ANTIBODIES FOR IMMUNOHISTOCHEMISTRY

Antigen bovine PNMT; raised in rabbit.

Test Date: 9/29/99

Performed By: LG

Tissue: Rat Brainstem and adrenal medulla

Perfusion Fixation: Fixative - 4% paraformaldehyde in 0.1 M Phosphate buffer, pH 7.4 (500 mL over 20-30 min.)

Post Fixation - 1.5 hr. at 4° C. in 4% paraformaldehyde in 0.1 M Phosphate buffer, pH 7.4.

Sections: 10 µm frozen

Antibody dilution: 1/400 - 1/800 in PBS/0.3% Triton X-100 - Cy3 Technique 1/1000 - 1/2000 in PBS/0.3% Triton X-100 - Bn-SA/HRP Technique

Incubation on Tissue: 16 hrs. at 4° C

DETECTION SYSTEM

Use Cy3 and Biotin-Streptavidin/HRP at dilutions recommended by the manufacturer.

This product contains dry natural rubber.

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