

Anti-Conjugated L-Norephedrine RABBIT POLYCLONAL AB-T167

Example of Immunohistochemistry applications:

Detection of L-Norephedrine in rat brain:

1. Perfusion: The rat is anesthetized with sodium Pentobarbital or Nembutal and perfused intracardially through the aorta using a pump with the following solutions:

solution A (30ml): 200-300ml/min

solution B (500ml): 200-300ml/min

Solution A: cacodylate 0.1M, sodium metabisulfite 10g/l, pH = 6.2

Solution B: cacodylate 0.1M, sodium metabisulfite 10g/l and glutaraldehyde 3-5%, pH = 7.5

- 2. Post fixation: 15 to 30 min in solution B, then 4 soft washes in Tris 0.05M with sodium metabisulfite 8.5g/l, pH 7.5 (solution C).
- 3. Tissue sectioning: Cryostat or vibratome sections can be used.
- 4. Reduction step: Sections are reduced with the solution C containing sodium borohydride (0.1M) for 10 min. Then, the sections are washed 4 times with solution C without sodium borohydride.
- 5. Application of anti-conjugated L.Norephedrine antibodies: The final dilution is 1/1,000 to 1/5,000 in solution C containing triton X100 0.5%, plus 2% of non-specific serum. A dozen of sections can be incubated with 2ml of antibody solution overnight at 4°C. Then, after this period, the sections are washed 3 times (10 min) with solution C.

Note: Antibodies may be used at a higher dilution. The customer should explore the antibody dilution to reduce the possibility of high background. Note that a substitution in the buffer system as used in our protocol may change the background and the antibody recognition.

6. PAP procedure:

Second antibody: Sections are incubated with 1/100 dilution of goat anti-rabbit in solution C for 3 hours at 20°C or 1 hour at 37°C. Then, they are washed 3 times (10 min) with solution C;

PAP: Sections are incubated with 1/1000 dilution of rabbit peroxidase anti-peroxidase complex in solution C for 1 hour at 37°C. Then, they are washed 3 times (10 min) with solution C;

Revelation: Antibody-antigen complexes are revealed using diaminobenzidine (25mg/100ml) (or other chromogen) dissolved in Tris 0.05M and filtrated; 0.05% of H₂O₂ is added. The sections are incubated for 10 min at 20°C. Reaction is stopped by transfering sections in 5ml of Tris 0.05M.

Example of Western blot protocol:

Membrane blocking, antibodies incubations and detection:

- 1. Saturate the blot membrane with TBS + 5% Blocker for 1 hour at 37°C while mixing
- 2. Wash the membrane twice for 5 minutes in TBS Tween at 37°C
- 3. Incubate the membrane with anti-conjugated L.Norephedrine antibodies diluted 1/1,000 1/2,000 in TBS 0.5% Blocker for 2 hours at 37°C
- 4. Wash the membrane three times for 5 minutes in TBS Tween at 37°C
- 5. Incubate with a biotinylated secondary antibody diluted (1/1,000-1/2,000) in TBS 0.5% Blocker for 2 hours at 37°C
- 6. Wash the membrane three times for 5 minutes in TBS Tween at 37°C
- 7. Incubate with Streptavidin-HRP 1μ g/ml in TBS 0.5% Blocker for 2 hours at room temperature
- 8. Wash the membrane three times for 5 minutes in TBS at 37°C
- 9. Incubate in TBS (200ml) + (50mg DAB in 25ml methanol) + (150mg 4-chloro-1-naphtol in 25ml methanol) + 50µl H₂O₂ 30% for a maximum of 30 minutes in the dark
- 10. Stop the reaction by addition of distilled water

Blocker = skim milk (Biorad 170-6404)

TBS = 20 mM Tris base, 0.5M NaCl, pH 7.5

TBS Tween = TBS + 0.05% Tween 20