

## Anti-Conjugated Phytanic Acid RABBIT POLYCLONAL AB-T163

## **Example of ELISA protocol:**

- 1. Coating of conjugated Phytanic acid (20µg/ml) in maxisorp well plates (Nunc) with a solution of sodium carbonate buffer 0.05M (pH 9.6), during sixteen hours at 4°C.
- 2. Saturation of well plates with of a solution of PBS (pH 7.3) containing 1g/l of BSA (Acros) and 0.5% of Tween (one hour at 37°C).
- 3. Wash with PBS (three times).
- 4. Anti-conjugated Phytanic acid antibodies will be diluted (1/5,000-1/10,000) in PBS Tween containing 1g/l BSA, 200μl by well plate (incubating during 2 hours at 37°C).
- 5. Wash with PBS containing 0.5% of Tween (PBS Tween) (three times).
- 6. 200µl of peroxidase-labeled goat anti-rabbit (Jackson) diluted (1/10,000) in a solution of PBS Tween containing 1g/l of BSA, will be applied by well plate (during one hour at 37°C).
- 7. Well plates will be rinsed with PBS Tween (three times).
- 8. And finally the peroxidase will be developed by incubating 200µl by well plate of a citrate 0.1M/phosphate 0.2M (pH 5) solution containing 0.4% of OPD (Sigma) and 0.03% of hydrogen peroxide (Acros) for ten minutes in the dark, after that, we will stop the reaction by the addition of 50µl of 2M HCl.
- 9. The optical density will be measured at 492nm.

## **Example of immunohistochemistry protocol:**

Perfusion protocol for Adult male Sprague Dawley (weight around 0.5 kg):

- 1. The animals can be deeply anaesthetized (for example with urethane-0.5-1.5g/kg, intraperitoneal).
- 2. Heparinized, and perfused via the ascending aorta with 50 ml of MES (2-Morpholinoethanesulfonic acid monohydrate; Fluka) 10<sup>-1</sup> M, pH 5.4, and with the following solutions:
  - a) 200 ml of a solution containing MES 10<sup>-1</sup> M, pH 5.4 and ECD [1-(3-Dimethyl-aminopropyl)-3-ethylcarbodiimide hydrochloride; Acros] 10<sup>-1</sup> M (two minutes).
  - b) 800-1000 ml of phosphate buffer (PB) pH 7.2 (eight minutes)
  - c) 800-1000 ml of cold 4% paraformaldehyde (Merck) in 0.1 M PB, pH 7.2-7.4, (ten minutes).
  - d) Dissect out the organs and place in a solution of 4% paraformaldehyde in 0.1M PB, pH 7.2, at 4°C for twelve to sixteen hours.

## Example of immunohistochemical protocol:

- 1. In order to avoid possible interference with endogenous peroxidase, free-floating sections will be treated with distilled water containing NH<sub>3</sub> (20%), H<sub>2</sub>O<sub>2</sub> (30%) and NaOH (1%) for 20 min (other method is using a solution with 33% of H<sub>2</sub>O<sub>2</sub> and 66% of methanol).
- 2. Then, wash the sections for 20 min in 0.15 M phosphate-buffered saline (PBS) (pH 7.2)
- 3. Pre-incubate for 30 min in PBS containing 2-10% (variable to adjust) of normal horse serum and 0.3% of Triton X-100 (mixed solution).
- 4. Incubate at room temperature (1h 30min) and overnight at 4°C in the same mixed solution containing the diluted anti-conjugated Phytanic acid antibodies (1/1,000 1/5,000).
- 5. Then, the sections will be wash in PBS (30 min).
- 6. After that we will incubate for 60 min at room temperature with biotinylated anti-rabbit immunogammaglobulin (Vector) diluted 1/200 in PBS.
- 7. Wash during 30 min with PBS.
- 8. Sections will be incubated for 1 h with a 1/100 diluted avidin-biotin-peroxidase complex (Vectastain) in the mixed solution.
- 9. After that we will wash the sections in PBS (30 min)
- 10. Wash with Tris-HCl buffer (pH 7.6)(10 min).
- 11. The tissue-bound peroxidase will be developed with H<sub>2</sub>O<sub>2</sub> using 3, 3' diaminobenzidine as chromogen.
- 12. Finally the sections will be rinsed with PBS and coverslipped with PBS/Glycerol (1/1).