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**Anti-Conjugated 5-Methoxytryptophan  
RABBIT POLYCLONAL  
AB-T080**

**Example of ELISA protocol used to test conjugated 5-methoxytryptophan:**

1. Coating of conjugated 5-methoxytryptophan ( $15\mu\text{g/ml}$ ) in maxisorp well plates (Nunc) with a solution of sodium carbonate buffer  $0.05\text{M}$  ( $\text{pH } 9.6$ ), during sixteen hours at  $4^\circ\text{C}$ .
2. Saturation of well plates with of a solution of PBS ( $\text{pH } 7.3$ ) containing  $2.5\text{g/l}$  of BSA (Acros) and  $0.05\%$  Tween 20 (Acros) during one hour at  $37^\circ\text{C}$ .
3. Wash with PBS Tween (two times).
4. Anti-conjugated 5-methoxytryptophan antibodies will be diluted ( $1/1,000$ - $1/5,000$ ) in PBS containing  $2.5\text{g/l}$  BSA and  $10\%$  of glycerol,  $200\mu\text{l}$  by well plate (incubating during 2 hours at  $37^\circ\text{C}$ ).
5. Wash with PBS Tween (three times).
6.  $200\mu\text{l}$  of peroxidase-labeled sheep anti-rabbit (Bio-Rad) diluted ( $1/10,000$ ) in a solution of PBS containing  $2.5\text{g/l}$  BSA,  $10\%$  of glycerol and  $0.5\%$  of Tween will be applied by well plate (during one hour at  $37^\circ\text{C}$ ).
7. Well plates will be rinsed with a PBS Tween (three times).
8. And finally the peroxidase will be developed by incubating  $200\mu\text{l}$  by well plate of a citrate  $0.1\text{M}$ /phosphate  $0.2\text{M}$  ( $\text{pH } 5$ ) 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  $50\mu\text{l}$  of  $2\text{M}$  HCl.
9. The optical density will be measured at  $492\text{nm}$ , to obtain the different values.



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**Example of Immunohistochemistry used to test conjugated 5-methoxytryptophan :**

Perfusion Protocol for Adult Male Sprague Dawley (weight around 0.5 kg):

1. The animals can be deeply anesthetized with for example urethane (0.5-1.5g/kg, intraperitoneal).
2. Heparinized, and perfused via the ascending aorta with 100ml of cold physiologic saline (0.9% NaCl) and with the following fixative solution:
  - a) 300ml of cold 4% paraformaldehyde and 2% glutaraldehyde in 0.1M phosphate-buffer (PB), pH 7.2 (two minutes).
  - b) 600ml of cold 4% paraformaldehyde and 2% glutaraldehyde in 0.1M phosphate-buffer (PB), pH 7.2 (ten minutes).
  - c) Dissect out the brains and place in a solution of 4% paraformaldehyde in 0.1M PB, pH 7.2, at 4°C for twelve to sixteen hours.
  - d) Before the brains will be cut on a freezing microtome, we must include the brain in growing concentrations of sucrose (a first bain of 5% of sucrose in PBS until the brains sank), after that we will repeat the same process in a solution with a higher level of sucrose (10%), 20%, 25% and finally 30%.

Around 50 $\mu$ m-thick serial sections will be obtained, kept at 4° C in PBS (0.1 M, pH 7.2) and processed for immunostaining.

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 10% of normal horse serum and 0.3% of Triton X-100 (mixed solution).
4. Incubate at room temperature (1h30min) and overnight at 4°C in the same mixed solution containing 5-methoxytryptophan antiserum (diluted as recommended dilution).
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-rat immunoglobulin (Vector) diluted 1/200 in PBS.
7. Wash during 30 min with PBS.
8. Sections will be incubated for 1h with a 1/100 diluted avidin-biotin-peroxidase complex (Vectastain).
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).