

Protocol V: Staining of amyloids in vivo

Amytracker™ can be used for intravenous injections or intraperitoneal injection in small animals to stain amyloids *in vivo*. It will readily cross the blood brain barrier and no acute toxicity of Amytracker™ has been observed. We recommend multiphoton microscopy as read-out.

Solutions and Reagents:

Use Amytracker™ *in vivo* variant, which is sterile and provided as 10 mg/ml solution in ultrapure water. The following common reagents are required (not supplied):

- 2x Phosphate buffered saline (2xPBS), pH 7.4
- Multiphoton microscope with tuneable laser

Assay Procedure:

- Dilute Amytracker 1:1 in sterile 2xPBS to obtain a 5 mg/ml solution.
- Inject diluted Amytracker™ (*i.v* or *i.p.*). Adjust the injected volume to a total amount of 5 mg/kg body weight.
- You can expect to see staining of cerebral plaques as early as 6 min after injection.
- The staining will last for prolonged periods of time.

Multiphoton Microscopy:

- **Amytracker™480:** Excite at 800 nm using a tuneable laser and detect emission using.
- **Amytracker™520:** Excite at 800 nm using a tuneable laser and detect emission using.
- **Amytracker™630:** Excite at 800 nm using a tuneable laser and detect emission using.
- **Amytracker™680:** Excite at 800 nm using a tuneable laser and detect emission using.

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