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Tissue Processing

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Protocol status: Working

We use this protocol and it's working

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Abstract

Protocol for processing mouse tissue for immunohistochemistry.



- 1 After completion of live experiments, anesthetize the mouse with institution-approved substance at correct dosage.
- 2 Ensure the mouse is deeply anesthetized via the toe-pinch test and that there is no reaction. Place the mouse with its chest facing up above a basin to capture blood, and secure the paws so that the body doesn't move.
- 3 While there is still a heart beat, open chest cavity using small scissors and forceps, making sure not to puncture organs.
- 4 With a small needle/syringe attached to a pump, pierce the left (on your right side) ventricle. Pierce the left atrium to allow blood to flow through.
- 5 Perfuse the mouse with 1x PBS to clear the blood.
- 6 Once blood has been cleared, perfuse the mouse with 4% PFA.
- 7 Once the whole body is perfused, dissect all needed tissues and organs.
- 8 Post-fix the dissected tissues in 4% PFA for 4-6 hours.
- 9 After post-fixation, gently dry the tissue.
- 10 Embed each tissue to OCT block.
- 11 Section tissue at 40um thickness using cryostat.