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SPARC Serotonin 2B Receptor (5-HT2BR) Immunohistochemistry Protocol in Rat Tissues Labeled with Cholera Toxin B-fragment

Elisa Gonzalez-Rothi¹, Yasin Seven¹, Latoya Allen¹, Marissa Ciesla¹, Gordon Mitchell¹

¹University of Florida

1 Works for me dx.doi.org/10.17504/protocols.io.2kigcqe



Elisa Gonzalez-Rothi ⚡

ABSTRACT

This protocol describes the immunofluorescent labeling technique used to identify serotonin 2B receptor expression in CtB-labelled phrenic motor neurons and within a defined region of interest surrounding phrenic motor neurons.

- 1 Day 1: primary antibodies required:
5-HT2BR: Mouse anti-5-HT2BR (SantaCruz Biotechnology #C-6; SC-376878)
Cholera toxin B-fragment: Goat anti-CT-B (Millipore #227040)
- 2 Place 40um transverse spinal cord sections into 1xPBS in 12 well cell culture plates
- 3 5x washes in 1xPBS for 5 minutes each at room temperature
- 4 Blocking: place tissues in 5% Normal Horse Serum (NHS) in 1xPBS-Triton (0.1%) +0.5% bovine serum albumin (BSA) for 60 minutes at room temperature
- 5 Primary Antibody Incubation: Incubate tissues in: 5%NHS in 1xPBS-Triton (0.1%), Mouse anti-5-HT2BR (1:1000), and Goat anti-Ct-B (1:2500) overnight at 4 degrees C
- 6 Day 2: secondary antibodies required:
AlexaFluor 488: donkey anti-goat (Invitrogen, Ref#A11055)
AlexaFluor 594: donkey anti-mouse (Invitrogen, Ref#A21203)
- 7 5x washes in 1xPBS for 5 minutes each at room temperature
- 8 Secondary Antibody Incubation: Incubate tissues in: 5%NHS in 1xPBS-Triton (0.1%), donkey anti-goat (1:1000), and donkey anti-mouse (1:1000) for 2 hours at room temperature
- 9 5x washes in 1xPBS for 5 minutes each at room temperature
- 10 Mount tissues on Superfrost Plus microscope slides
- 11 Allow slides to dry overnight

12 Coverslip with VectaShield Antifade Hard Set Mounting Medium (Cat#:H-1400)



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