JUL 12, 2019

OPEN ACCESS

DOI:
dx.doi.org/10.17504/protocols.io.2khgct6

Protocol Citation: Elisa Gonzalez-Rothi, Yasin Seven, Latoya Allen, Marissa Ciesla, Gordon Mitchell 2019. SPARC Serotonin 2A Receptor (5-HT2AR) Immunohistochemistry Protocol in Rat Tissues Labeled with Cholera Toxin B-fragment. **protocols.io** <https://dx.doi.org/10.17504/protocols.io.2khgct6>

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Protocol status: Working
We use this protocol and it's working

Created: May 03, 2019

Last Modified: Jul 12, 2019

PROTOCOL integer ID:
22889

SPARC Serotonin 2A Receptor (5-HT2AR) Immunohistochemistry Protocol in Rat Tissues Labeled with Cholera Toxin B-fragment

In 1 collection

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ABSTRACT

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

Keywords: serotonin 2A receptor, 5HT2AR, 5-HT2AR, immunofluorescence, phrenic, immunohistochemistry, CT-B, cholera toxin B fragment

- 1 Day 1: primary antibodies required:
5-HT2AR: Rabbit anti-5-HT2AR (Immunostar #24288)
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%), Rabbit anti-5-HT2AR (1:1000), and Goat anti-Ct-B (1:2500) for 48 hours at 4 degrees C
- 6 Day 2: secondary antibodies required:
AlexaFluor 488: donkey anti-goat (Invitrogen, Ref#A11055)
AlexaFluor 594: donkey anti-rabbit (Invitrogen, Ref#A21207)
- 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-rabbit (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)