



Sep 15, 2022

LRRK2 Staining in mouse brain sections

Chuyu Chen¹¹Northwestern university

1 Works for me

 Sharedx.doi.org/10.17504/protocols.io.e6nvwj64dlmk/v1 divya.darwinarulseeli

ABSTRACT

LRRK2 is a widely expressed, multifunctional protein. *LRRK2* mutations are the major cause to inherited and sporadic PD. Staining of LRRK2 in mouse brain can be challenging. This protocol provides an optimised way to achieve LRRK2 staining in mouse brain sections.

DOI

dx.doi.org/10.17504/protocols.io.e6nvwj64dlmk/v1

PROTOCOL CITATION

Chuyu Chen 2022. LRRK2 Staining in mouse brain sections . **protocols.io**
<https://protocols.io/view/lrrk2-staining-in-mouse-brain-sections-cgpetvje>



LICENSE

————— This is an open access protocol distributed under the terms of the [Creative Commons Attribution License](https://creativecommons.org/licenses/by/4.0/), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

CREATED

Sep 15, 2022

LAST MODIFIED

Sep 15, 2022

PROTOCOL INTEGER ID

70086

1 Prepare brain cryosections in 20µm thickness

- 2 Blocking with 5% serum (preferably same serum as host of secondary antibody) 30 min RT
- 3 Wash with PBS 5 min 2x
- 4 Permeabilize with 0.5% Triton 15 min RT
- 5 Wash with PBS 5 min 2x
- 6 VECTOR® antigen unmasking solution 48ul/5ml water (in small glass sample vial). Microwave 10-20sec until boiled before use (or pre-heat to 100°C on heat plate)
- 7 Incubate at 100°C for 30min (<5 section / 5ml) then cool to room temperature (about 20min)
- 8 Wash with PBS 5 min 2x
- 9 Blocking with 5% serum 16-24hr 4°C
- 10 Wash with PBS 5 min 2x
- 11 Primary incubation 1% serum + 0.1% Triton 30-48 hr 4°C LRRK2 1:200 (Catalog number: N241A); Co-stained often with TH antibody
- 12 Wash with PBS 5 min 2x

13 Secondary incubation 1% serum + 0.1% Triton 1-2 hr RT Alexa Fluor 1:300

14 Wash with PBS 5 min 2x

15 Mount with ProLong™ Gold Antifade Mountant with DAPI