
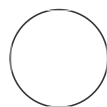




JUL 10, 2023

Immunocytochemistry for CASR in iPSc-derived dopaminergic neurons

 In 1 collectionPeter Kilfeather¹¹University of Oxford

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ABSTRACT

CASR immunocytochemistry protocol to accompany Kilfeather, Khoo et al., 2023:
Single cell spatial transcriptomic and translomic profiling of dopaminergic neurons in health, ageing and disease

OPEN ACCESS

DOI:

dx.doi.org/10.17504/protocols.io.ewov1onyplr2/v1

Protocol Citation: Peter Kilfeather 2023.

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<https://dx.doi.org/10.17504/protocols.io.ewov1onyplr2/v1>

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Protocol status: Working

We use this protocol and it's working

Created: Oct 18, 2022

Last Modified: Jul 10, 2023

PROTOCOL integer ID:

71469

Day 1

- 1 Fix the iPSC derived neurons in 4% PFA.
- 2 Permeabilise cells for 10 min in a solution of 5% NDS, 1% BSA and 0.5% Triton-X 100.
- 3 Block in a solution of 5% NDS and 1% BSA for 1 h.
- 4 Incubate cells for 16 h O/N at 4°C with the following primary antibodies: CASR (Abcam Cat# ab79038, RRID:AB_2071489, 1:500), MAP2 (Abcam Cat# ab92434, RRID:AB_2138147, 1:1000), tyrosine hydroxylase (Millipore Cat# AB1542, RRID:AB_90755, 1:500).

Day 2

- 5 Wash cells twice in PBS and then incubate in secondary antibodies and DAPI for 1.5 h at RT.
- 6 Wash cells 3 times and store in fresh PBS till imaging.