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Post mortem human substantial nigra TH staining

Waijiao Kai¹, Xiqun Chen²

¹MassGeneral Institute for Neurodegenerative Disease, Department of Neurology, Massachusetts G eneral Hospital, Harvard Medical School, Boston, USA Department of Integrative Medicine, HuaShan Hospital, Institutes of Integrative Medicine, Fudan University, Shanghai, China;

²MassGeneral Institute for Neurodegenerative Disease, Department of Neurology, Massachusetts G eneral Hospital, Harvard Medical School, Boston, USA Aligning Science Across Parkinson's (ASAP) Collaborative Research Network, Chevy Chase, Towson, MD, USA

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Pranay Srivastava

ABSTRACT

This protocol is standardized for postmortem (frozen) SN tissue from pathologically diagnosed PD patients and control individuals for Immunofluorescence staining.

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MATERIALS TEXT

Anti-TH, Sigma T1299, 1:400

Secondary antibody - goat anti-mouse Alexaflour 488, Lifetech, Cat# A11001) 1:400 ProLong Gold antifade (Lifetech, P36935)

1 Deparaffinization

6m

Wash slides in 2 changes of **■300 mL** ml of xylene – **© 00:06:00** each at room temperature.

2 Rehydration

23m

Wash slides in **300 mL** of 100% alcohol − **00:09:00** at **8 Room temperature**.

Wash slides in **300 mL** of 95% alcohol − **00:06:00** at **8 Room temperature**.

Wash slides in **■300 mL** of 80% alcohol – **© 00:03:00** at **§ Room temperature**.

Rinse slides in gentle running distilled water - © 00:05:00 at & Room temperature.

3 Antigen retrieval

30m

Microwave (high power) slides in **■200 mL** [M]**0.01 Molarity (M)** sodium citrate buffer, pH 6.0 at § **99-100 °C** for **© 00:05:00**, three rounds.

Add 40 mL distill water after 1st round

Add **150 mL** sodium citrate buffer after the 2nd round.

Let stand at room temperature in the buffer - © 00:20:00

Rinse in 1X TBS with Tween (TBST) – for © 00:05:00 at & Room temperature.

4 Immunostaining

1h 10m

Do not allow tissues to dry at any time during the staining procedure.

Apply a universal protein block (5% goat serum in TBST) – for © 00:30:00 at

8 Room temperature .

Drain protein block from slides, and apply diluted primary antibody overnight at 8 4 °C.

Rinse slides in 1X TBST 3 times - © 00:05:00 each at & Room temperature.

Incubate secondary antibody (Conc - 1:400) - © 00:30:00 at § 37 °C.

Rinse slides 1X TBST 3 times - © 00:05:00 each at & Room temperature

Mount the slides with ProLong Gold antifade



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