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Immunostaining of Organoid Sections

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ABSTRACT

Immunostaining of Organoid Sections derived from human iPS cells.

MATERIALS

- Blocking Buffer: 1xPBS + 5% FBS + 1% BSA+ 0.3% Triton X + 0.1% Azide
- 1x PBS
- 24-well plate
- Paint brush
- Incubation Buffer: 1xPBS + 1% Triton X
- Primary and secondary antibodies
- Fluoromount with DAPI

OPEN  ACCESS



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

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- 1 Place organoid sections into 1ml of PBS in a 24-well plate (1 section per well)
- 2 Aspirate off the PBS gently
- 3 Add ~600ul of blocking buffer for 20mins at RT on the rocker 20m
- 4 Wash 3x with 500ul of PBS and aspirate off PBS
- 5 Add primary AB at working concentration and incubate in Blocking Buffer overnight at 4°C (GFAP-1:500)
- 6 Wash 3x with 500ul of PBST, and aspirate it off
- 7 Add secondary AB at working concentration and incubate in Blocking Buffer at RT on a rocker for 1 hour, making sure to cover the plate with aluminum foil to prevent bleaching of the secondary AB (1:1000 for both secondaries)
- 8 Wash 3x in PBST mount onto a slide in water
- 9 DAPI staining is 2ug/ml in PBST for 15 min at RT 15m

- 10 Wash 3x with PBST
- 11 Once the section is on the slide, aspirate off some of the water and add a drop of Fluoromount with DAPI before placing round coverslip on top, being careful not to cause any bubbles underneath
- 12 leave overnight at RT to let dry and covered to prevent bleaching
- 13 Store covered at 4C