

Materials List for:

Using Primary Neurosphere Cultures to Study Primary Cilia

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Materials

| Name | Company | Catalog Number | Comments |
|--|----------------------------|------------------|---|
| 12 mm round cover glass | Fisherbrand | 12-545-80 | |
| 24-well plate | Falcon | 353047 | |
| 4% paraformaldehyde (PFA) | Affymetrix | 19943 | |
| 50 mL tube | Falcon | 352098 | |
| 95 mm x 15 mm petri dish, slippable lid | Fisherbrand | FB0875714G | 10 cm dish |
| 70 µm cell strainer | Falcon | 352350 | |
| Alexa Fluor 488 Affinipure Donkey Anti-Rabbit IgG (H+L) | Jackson ImmunoResearch | 711-545-152 | Donkey anti Rabbit, Alexa 488 secondary antibody |
| Arl13B, Clone N295B/66 | Neuromab | AB_11000053 | |
| B-27 Supplement (50X), serum free | ThermoFisher Scientific | 17504001 | B27 |
| Centrifuge | Thermo scientific | ST 40R | |
| Cryogenic vial | Corning | 430488 | |
| DAPI | Sigma | D9542-10MG | |
| Deoxyribonuclease I from bovine pancrease | Sigma | D5025-15KU | Dnase I |
| Dimethyl sulfoxide | Sigma | D8418-100ML | DMSO |
| Disposable Vinyl Specimen Molds | Sakura Tissue-Tek Cryomold | 4565 | 10 mm x 10 mm x 5 mm |
| Dulbecco's Phosphate-buffered Saline 10X, Modified, without calcium chloride and magnesium chloride, liquid, sterile-filtered, suitable for cell culture | Sigma | D1408-500ML | DPBS |
| Dumont #5 Forceps | Fine science tools | 11254-20 | |
| Fetal Bovine Serum (FBS) | Sigma | F9026-500ML | |
| Fluoromount-G solution | Southern Biotech | 0100-01 | mounting solution |
| GFAP | DAKO | Z0334 | |
| Goat anti Mouse IgG1 Secondary Antibody, Alexa Fluor 555 conjugate | ThermoFisher Scientific | A-21127 | Goat anti Mouse IgG1, Alexa 555 secondary antibody |
| Goat anti Mouse IgG2a Secondary Antibody, Alexa Fluor 555 conjugate | ThermoFisher Scientific | A-21137 | Goat anti Mouse IgG2a, Alexa 555 secondary antibody |
| Gpr161 | home made | N/A | |
| human bFGF | Sigma | F0291 | FGF |
| hemocytometer | Hausser Scientific | 0.100 mm deep | improved neubauer |
| Isothesia | Henry Schein | NDC 11695-0500-2 | Isoflurane |

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|---|-------------------------|-------------|--------------------------------|
| Laminin from Engelbreth-Holm-Swarm Sarcoma basement membrane | Sigma | L2020 | Laminin |
| L-Glutamine (200 mM) | Sigma | G7513 | |
| Lipofectamine 3000 Transfection Reagent | ThermoFisher Scientific | L3000 | |
| Mr. Frosty | Nalgene | 5100-0036 | |
| N-2 supplement (100X) | ThermoFisher Scientific | 17502001 | N2 |
| Neurobasal medium | Gibco | 21103-049 | |
| Normal Donkey Serum | Jackson ImmunoResearch | 017-000-121 | |
| OCT compound | Sakura Tissue-Tek | 4583 | OCT |
| Penicillin-Streptomycin | Sigma | P4333-100ML | |
| Poly-L-Lysine (PLL) | Sigma | P4707 | |
| Recombinant human EGF protein, CF | R and D systems | 236-EG-200 | EGF |
| Scissor | Fine science tools | 14060-10 | |
| Superfrost plus microscope slide | Fisher scientific | 12-550-15 | slides |
| Triton X-100 | Bio-Rad | 161-0407 | |
| Trypsin-EDTA solution (10X) | Sigma | T4174-100 | Trypsin |
| COSTAR 6-Well Plate, With Lid Flat Bottom Ultra-Low Attachment Surface Polystyrene, Sterile | Corning | 3471 | ultra-low binding 6-well plate |
| β -tubulin III | Covance | MMS-435P | TUJ1 |