

Materials List for:

Visualizing and Analyzing Intracellular Transport of Organelles and Other Cargos in Astrocytes

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Materials

Name	Company	Catalog Number	Comments
2.5% Trypsin (10x)	Gibco	15090-046	
Benchtop Centrifuge	Thermo Scientific	75-203-637	Sorvall ST8 Centrifuge
Cell Culture Grade Water	Gen Clone	25-511	
Cell Culture Microscope	Zeiss	WSN-AXIOVERT A1	Vert.A1 inverted scope, Inverted tissue culture microscope with fluorescent capabilities
Cytosine Arabinoside	Sigma	C1768-100MG	(AraC) Dissolve lyophilized powder in sterile cell culture grade water to make a 10mM stock, aliquot and freeze for long term storage
DAPI	Sigma	D9542-5MG	Dissolve lyophilized powder in deionized water to a maximum concentration of 20 mg/ml, heat or sonicate as necessary. Use at 300 nM for counterstaining.
Dissecting Microscope	Zeiss		Stemi 305
Dissecting Scissors	F.S.T	14558-09	
Dulbecco's Modified Eagle Medium	Gen Clone	25-500	
Fetal Bovine Serum	Gemini	100-106	Heat-Inactivated
Fiji (Fiji is Just Image J)	NIH	Version 1.52i	
Fine Tip Tweezers	F.S.T	11254-20	Style #5
Fluorescence light source	Excelitas	012-63000	X-Cite 120Q
GFAP antibody	Cell Signaling	3670S	GFAP (GA5) mouse monoclonal antibody
Glass Bottom Dishes	Mattek corporation	P35G-1.5-14-C	35 mm Dish No. 1.5 Coverslip 14 mm Glass Diameter Uncoated
Graefe Forceps	F.S.T	11054-10	Graefe Iris Forceps with curved tips
Green fluorescent dye that stains acidic compartments (late endosomes and lysosomes)	Life Technologies	L7526	LysoTracker Green DND 26. Pre-dissolved in DMSOS to a 1mM stock solution. Dilute to the final working concentration in the growth medium or buffer of choice.
Hank's Balanced Salt Solution (10x)	Gibco	14065-056	Magnesium and calcium free
Imaging Media	Life Technologies	A14291DJ	Live Cell Imaging Solution
Inverted Confocal Microscope	Zeiss		LSM 780
KymoToolBox			https://github.com/fabricecordelieres/IJ_KymoToolBox

Lipofection Enhancer Reagent	Life Technologies	11514015	Plus Reagent
Lipofection Reagent	Life Technologies	15338100	Lipofectamine LTX reagent
Orbital shaking incubator	New Brunswick Scientific	8261-30-1008	Innova 4230 , orbital shaking incubator with temperature and speed control
Penicillin/Streptomycin solution (100x)	Gen Clone	25-512	
Phosphate Buffered Saline (10x)	Gen Clone	25-507x	
Poly-D-Lysine Hydrobromide	Sigma	P7405	Dissolve in Tris buffer, pH 8.5, at 1mg/mL. Freeze for long term storage. Avoid cycles of freezing and thawing
Reduced serum medium	Gibco	31985-062	OPTI-MEM
Tissue Culture Flasks	Olympus Plastics	25-209	75 cm ² . 100% angled neck access, 0.22um hydrophobic vented filter cap
Tissue culture incubator	Thermo Scientific	51030285	HERAcCell VIOS 160i, tissue culture incubator with temperature, humidity, and CO2 control
Tris-Base	Sigma	T1503	8.402 g dissolved to one liter in water with 4.829 g Tris HCl to make 0.1 M Tris buffer, pH 8.5
Tris-HCl	Sigma	T3253	4.829 g dissolved to one liter in water with 8.402 g Tris Base to make 0.1 M Tris buffer, pH 8.5
Trypsin-EDTA (0.25%), phenol red	Gibco	25200072	
Vacuum-Driven Filter Systems	Olympus Plastics	25-227	500 ml, PES membrane, 0.22 µm
Vannas scissors straight	Roboz	RS-5620	