

Materials List for:

Ex vivo Live Imaging of Single Cell Divisions in Mouse Neuroepithelium

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Materials

Name	Company	Catalog Number	Comments
Z/RED line (STOCK Tg(CAG-Bgeo,-DsRed*MST)1Nagy/J	Jackson Laboratory	005438	
Olig2-eGFP line (STOCK Tg(Olig2-EGFP)EK23Gsat/Mmcd	MMRRC,	010555-UCD	
CAGGCreER	Jackson Laboratory	003724	
Tamoxifen	Sigma	T5648	
DMEM/F12 (1:1)	GIBCO	21041-025	
Newborn calf serum	Lonza	14-416F	
Penicillin/Streptomycin	Invitrogen	15140-122	
Rat Serum SD male	Harlan Bioproducts	4520	
1M Hepes	BioWhittaker	17-737E	
L-Glutamine	GIBCO	21041-025	
Light mineral oil	Sigma	M8410	
Sstr3-GFP lentivirus	Emory Viral Core		
Micro-knife, size 0.025 mm	Electron Microscopy Sciences	62091	
35 mm poly-L-lysine coated glass bottom dish	MatTek	P35GC-0-10-C	
100% Petroleum Jelly	Kroger	FL9958c	
A1R Laser Scanning Confocal Inverted Microscope	Nikon		
NIS Elements software	Nikon		
Imaris 3D software	Bitplane AG	Imaris 7.2.3	
OCT	Tissue-Tek	4583	
Cryostat	Leica	CM1850	
Heat-inactivated sheep serum	Invitrogen	16210-072	
Triton X-100	Fisher Scientific	BP151	
Paraformaldehyde	Sigma	P6148	
Phosphate Buffer	Lab made		
Rat monoclonal anti-RFP (5F8)	Chromotek	110411	
Rabbit anti-Arl13b serum	NeuroMab		
mouse monoclonal anti-Arl13b 1:5	NeuroMab		
Rabbit anti-Olig2	Chemicon	AB9610	
Mouse monoclonals Pax6	Developmental Hybridoma Bank	Pax6	
Mouse monoclonalsShh	Developmental Hybridoma Bank	5E1	
Mouse monoclonals Nkx2.2	Developmental Hybridoma Bank	74.5A5	
Rabbit polyclonal Ki67	Abcam	AB15580	

Alexa Fluor 488	Molecular Probes	A11029	
Alexa Fluor 568	Molecular Probes	A11031	
Alexa Fluor 350	Molecular Probes	A11046	
H-chst	Fisher	AC22989	
TO-PRO-3	Invitrogen	T3605	
ProLong Gold anti-fade reagent	Invitrogen	P36934	