

Materials List for:

Whole-mount Confocal Microscopy for Adult Ear Skin: A Model System to Study Neuro-vascular Branching Morphogenesis and Immune Cell Distribution

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Materials

Name	Company	Catalog Number	Comments
10 x Phosphate Buffered Saline	KD Medical	RGE-3210	PBS, without Ca ²⁺ /Mg ²⁺
Hank's Balanced Salt Solution	Gibco	14025-092	HBSS, with Ca ²⁺ /Mg ²⁺
16% Paraformaldehyde	Electron Microscopy Sciences	15710	PFA, fixative, diluted in PBS
Triton X-100	Sigma	X100	Detergent
Normal goat serum	Gibco	16210064	Component of blocking/washing buffer
Normal donkey serum	Jackson Immuno research	017-000-121	Component of blocking/washing buffer
Curved fine tweezers	Dumont	RS-5047	
Curved tweezers	Integra Miltex Vantage	V918-782, V918-784	
Filter Unit 0.45 mm	Thermo Scientific	157-0045	For filtration
1 mL syringe	Coviden	8881501400	For filtration
Syringe filter Unit 0.22 mm	Millex-GV	SLGVR04NL	For filtration
ProLong Gold	Thermo Scientific	P36934	Anti-fade mounting medium
Nail Polish	Electron Microscopy Sciences	72180	For sealing
Dissecting microscope	Leica	MZ95	
Confocal microscope	Leica	TCS SP5	
Photoshop CC 2017	Adobe		Graphics editor software
Illustrator CC 2017	Adobe		Graphics editor software
Image J	NIH		Image processing software
Anti-PECAM-1 (CD31) antibody	Millipore	MAB1398Z	Hamster IgG, vascular endothelial cell marker, 1:300
Anti-PECAM-1 (CD31) antibody	BD Pharmingen	553369	Rat IgG2a kappa, vascular endothelial cell marker, 1:300
Anti-αSMA antibody conjugated with cy-3	Sigma	C6198	Mouse IgG2a, vascular smooth muscle cell marker, 1:500
Anti-EphB1 antibody	Santa Cruz	sc-9319	Goat polyclonal, venous endothelial cell marker, 1:100
Anti-neuron-specific Class III β-tubulin (Tuj1)	Abcam	AB18207	Tuj1, Rabbit polyclonal IgG, pan-axonal marker, 1:500
Anti-Tuj1 antibody	Covance	MMS-435P	Mouse IgG2a, pan-axonal marker, 1:500
Anti-MBP antibody	Abcam	AB40390	Rabbit polyclonal IgG, myelination marker, 1:200

Anti-Tyrosine Hydroxylase antibody	Chemicon	AB152	Rabbit polyclonal, sympathetic neuron marker, 1:500
Anti-Peripherin antibody	Chemicon	AB1530	Rabbit polyclonal, peripheral neuron marker, 1:1000
Anti-CD11b antibody	Bio-Rad	MCA74G	Rat IgG2b, inflammatory cell marker (macrophages), 1:50
Anti-CD45 antibody	Thermo Fisher Scientific	14-0451-85	Rat IgG2b kappa, pan-hematopoietic cell marker, 1:500
Anti-CD3 antibody	Bio-Rad	MCA1477T	Rat IgG1, immune cell marker, 1:100
Anti-CD45R (B220) antibody	Thermo Fisher Scientific	14-0452	Rat IgG2a kappa, inflammatory cell marker, 1:200
Anti-GFP antibody	Thermo Fisher Scientific	A11122	Rabbit polyclonal, 1:300
Anti-GFP antibody	Abcam	Ab13970	Chicken polyclonal, 1:500
Anti- β -gal antibody	Cappel	55976	Rabbit polyclonal, 1:5000
Anti-RFP antibody	Abcam	Ab62341	Rabbit polyclonal, 1:300
Goat anti-rabbit IgG (H+L) Alexa 488	Thermo Fisher Scientific	A11034	Rabbit polyclonal secondary antibody, 1:250
Goat anti-hamster IgG (H+L) Alexa 647	Jackson Immuno research	127-605-160	Hamster polyclonal secondary antibody, 1:250
Goat anti-rat IgG (H+L) Alexa 594	Jackson Immuno research	112-585-167	Rat polyclonal secondary antibody, 1:250
Goat anti-mouse IgG2a Alexa 633	Thermo Fisher Scientific	A21136	Mouse IgG2a secondary antibody, 1:250