

Materials List for:

A Novel Mammary Fat Pad Transplantation Technique to Visualize the Vessel Generation of Vascular Endothelial Stem Cells

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Materials

Name	Company	Catalog Number	Comments
0.05% Trypsin-Ethylene Diamine Tetraacetic Acid(EDTA) (1x)	Gibco (Life Technologies)	25300-062	0.05% Trypsin
0.22 µm Filter Unit	Merck Millipore Ltd.	SLGP033RB	0.22 µm Filter
2-Methylbutanol-2, ReagentPlus	Sigma-Aldrich	24, 048-6	Tert Amyl Alcohol
222, Tribromethanol	Sigma-Aldrich	T48402-25g	222, Tribromethanol
4',6-diamidino-2-phenylindole(DAPI)	Invitrogen	D1306	DAPI
70 µm Cell Strainer	BD FAL	352350	70 µm Cell Strainer
Adhesion Microscope Slides	CITOGLAS	188105	Glass slides
Anti-mouse CD105 APC	eBioscience	17-1051-82, clone MJ7/18	for FACS analysis use at 1 µg/mL
Anti-mouse CD201 Biotin	eBioscience	13-2012-82	for FACS analysis use at 2.5 µg/mL
Anti-mouse CD31 PE-Cyanine 7	eBioscience	25-0311-82, clone 390	for FACS analysis use at 1 µg/mL
BD FACSJazz Cell Sorter	BD Biosciences	655489	FACS
Bovine Serum Albumin	Sigma	100190332	BSA
Centrifuge	Eppendorf	5810R	Centrifuge
Collagenase type 3	Worthington-Biochem	#LS004183	Collagenase III
Confocal microscopy	Leica	sp8	Confocal
Deoxyribonuclease I from bovine pancreas	Sigma	D2463-5VL	Dnase I
Donkey anti-Rat Cy3	Jackson ImmunResearch	712-165-150	Secondary antibody, use at 0.5 µg/mL
Dumont Forceps	WPI	500342	Forceps
Dumont Forceps - Micro-Blunted Tips	FST	11253-20	Forceps
Fetal Bovine Serum	Hyclone	SH30396.03	FBS
FITC Ms CD3/Gr1/CD11b/CD45R(B220)/Ter-119	BioLegend	78022	Blood lineage cocktail for FACS analysis, use at 25 µL per test
Glycerol	Sigma	G6279	Glycerol
Isco's Modified Dulbecco's Medium	Gibco (Life Technologies)	12440-053	IMDM
Isolectin GS-IB4 from Griffonia simplicifolia, Alexa Fluora 647	Invitrogen	Z32450	Isolectin-647
Matrigel Matrix (growth factor reduced)	BD	356231	Matrigel
Mouse strain (Actin-GFP)	Jax Laboratories	3773	Actin-GFP
Mouse strain (C57BL/6)	SLAC	C57BL/6	C57BL/6

Mouse strain (BALB/c nude)	SLAC	BALB/c nude	Nude mice
Paraformaldehyde	Sigma	P6148	PFA
Penicilin Streptomycin	Gibco (Life Technologies)	5140-122	Pen/Strep
Phosphate Buffered Saline (pH7.2) 1x	Gibco (Life Technologies)	c20012500BT	PBS
PRIM1640	Gibco (Life Technologies)	c11875500CP	PRIM1640
ProLong Gold antifade reagent	Life Technologies	P36934	Mounting Medium
Rat anti CD144	BD Biosciences	550548	for whole-mount analysis, anti-VE-Cadherin / Cdh5 antibody for endothelial tight junction, use at 2.5 µg/mL
Rat anti CD31-biotin	BD Biosciences	553371	for whole-mount analysis, anti-CD31/PECAM1 antibody for endothelial surface adhesion molecule, use at 10 µg/mL
Red Cell Lysis Buffer	Sigma	R7767-100ML	Red blood cell lysing buffer
Straight/Sharp-Blunt/10cm	FST	14028-10	Fine Scissors
Streptavidin eFluor 450	eBioscience	48-4317-82	for FACS analysis use at 0.5 µg/mL
Tamoxifen	Sigma	101551374	TAM
Triton X-100	Sigma-Aldrich	T8787-250ML	TritonX
Wax Coated Braided Silk (Size 5-0 USP (1 Metric), 18 inches (45 cm) BLACK on C-1 Needle)	COVIDIEN	S1173	Suture
Sterile Disposable Scapels	Swann Morton	#10	Scalpel
Betadine	Yifeng Medical	20160101	Antiseptic solution