

Materials List for:

Isolation and Purification of Murine Cardiac Pericytes

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URL: <https://www.jove.com/video/59571>

DOI: [doi:10.3791/59571](https://doi.org/10.3791/59571)

Materials

Name	Company	Catalog Number	Comments
0.25% Trypsin-EDTA	Corning	25-053-CI	dilute with 1x DPBS to get 0.1%
100 µM Cell strainer	FisherSci	22363549	
15 mL Falcon conical tubes	BD	352096	
24-well plate	Corning	CLS3527	
25 G butterfly needle	FisherSci	22-253-146	
31 G needle syringe	FisherSci	B328446	
50 mL Falcon conical tubes	BD	352098	
6-well plate	Corning	CLS3516	
anti-alpha smooth muscle actin rabbit mAb	abcam	ab32575	Antibody used in ICC 1:100 dilution
anti-CD140b rabbit mAb	Cell Signaling	28E1	Antibody used in ICC 1:100 dilution
anti-CD31 rabbit pAb	abcam	ab28364	Antibody used in ICC 1:100 dilution
anti-desmin rabbit pAb	abcam	ab8592	Antibody used in ICC 1:100 dilution
anti-NG2 conjugated to AF488	Millipore	MAB5384A4	Antibody used in ICC 1:100 dilution
anti-vimentin rabbit mAb	abcam	ab92547	Antibody used in ICC 1:100 dilution
ArC Amine Reactive Compensation bead kit	Invitrogen	A10346	compensation beads for Live/Dead Near IR dye
Brightfield Microscope			camera attached
CD140b-PE (clone APB5)	eBioscience	12-1402-81	Antibody used in FACS 1:100 dilution
CD146-BV605 (clone ME-9F1)	BD	740434	Antibody used in FACS 1:100 dilution
CD31-APC (clone MEC 13.3)	BD	551262	Antibody used in FACS 1:100 dilution
CD34-BV421 (clone RAM 34)	BD	56268	Antibody used in FACS 1:100 dilution
CD45-PE-Cy7 (clone 30-F11)	BD	552848	Antibody used in FACS 1:100 dilution
Centrifuge	eppendorf		
Collagenase B	Roche	11088815001	0.226 U/mg lyo.
Confocal Microscope			
DAPI	ThermoFisher	D1306	nuclear stain
DMEM with 4.5 g/L glucose, L-glutamine & sodium pyruvate	Corning	10-013-CV	500 mL
Dowell scissors	FST	15040-11	
Dulbecco's Phosphate-Buffered Saline (DPBS)	Corning	21-030-CV	500 mL

Dulbecco's Phosphate-Buffered Saline without Ca and Mg (CMF-DPBS)	Corning	21-031-CV	500 mL
Dumont #5 Fine Forceps	FST	11254-20	
FACS Aria cell sorter	BD		Lasers: 405 nm 50 mW, 488 nm 100 mW, 561 nm 50mW, 633 nm 11 mW
FACS Aria software	BD		
Falcon tube round-bottom polypropylene, 5 mL	BD	38057	
Falcon tube with cell strainer cap, 5 mL	BD	08-771-23	
Fetal Bovine Serum	Corning	35-015-CV	500 mL
Fine scissors	FST	14060-09	
FlowJo software	FlowJo LLC		
Fortessa LSR flow cytometer	BD		Lasers: 405 nm 50 mW, 488 nm 100 mW, 561 nm 50mW, 633 nm 11 mW
Gelatin-based coating	Cell Biologics	6950	
Goat anti-rabbit IgG (H+L) Cross-Absorbed Secondary antibody, Alexa Fluor 488	Invitrogen	A-11008	Antibody used in ICC 1:1000 dilution
Graefe Forceps	FST	11049-10	
Heparin sodium solution	Hospira	NDC 0409-2720-02	10,000 USP units/10 mL; from porcine intestines
Incubator			set at 37 °C, 5% CO ₂ , 95% O ₂
Live/Dead-Near IR	Life Technologies	L10119	
Microscope slides	FisherSci	12-550-343	
NG2-FITC	Millipore	AB5320A4	Antibody used in FACS 1:100 dilution
Oribital shaker	VWR		Inside 37 °C incubator or room
Paraformaldehyde	FisherSci	50-980-487	dilute with 1x DPBS to get 4%
Penicillin-Streptomycin	Corning	30-002-CI	
Petri dish	FisherSci	FB0875714	
Pipette and tips			
ProLong Diamond	ThermoFisher	P36965	mounting media
Propidium Iodide	ThermoFisher		cell viability dye for supplemental figure 2
Rabbit IgG FITC	eBiosciences	11-4614-80	Isotype control antibody - FITC
Rat IgG2a APC	Biolegend	400512	Isotype control antibody - APC
Rat IgG2a BV421	Biolegend	400536	Isotype control antibody - BV421
Rat IgG2a BV605	BD	563144	Isotype control antibody - BV605
Rat IgG2a PE	Biolegend	400308	Isotype control antibody - PE
Rat IgG2b PE-Cy7	Biolegend	400617	Isotype control antibody - PE-Cy7
SuperBlock	ThermoFisher	37515	blocking buffer
T75	ThermoFisher	156499	
Triton X-100	Sigma	X100	detergent, dilute with x DPBS to get 0.1%
UltraComp beads	Invitrogen	01-2222-42	compensation beads
Variable-Flow Peristaltic Pump	FisherSci	13-876-1	

ViCell Cell counter	Beckman		
Wash buffer			1:10 dilution of Superblock in 1x DPBS