

Materials List for

Isolation Method for Long-Term and Short-Term Hematopoietic Stem Cells

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Materials

Name	Company	Catalog Number	Comments
0.2 mL Strip of 8 Tubes, Dome Cap	SSIBio	3230-00	
0.5M EDTA pH 8.0	Invitrogen	AM9260G	
100 µm Cell Strainer	Falcon	352360	
30G insulin syringe	BD	326668	
40 µm Cell Strainer	Falcon	352340	
5 mL Round Bottom Polystyrene Test Tube, with Cell Strainer Snap Cap	FALCON	352235	
7-AAD Viability Staining Solution	BioLegend	420404	
96 well U-Bottom	FALCON	351177	
Anti-APC-MicroBeads	Milteny biotec	130-090-855	
Aspirator with trap flask	Biosan	FTA-1	
B220-Alexa Fluor 700 (RA3-6B2)	BioLegend	103232	
B220-Biotin (RA3-6B2)	BioLegend	103204	
B220-BV786 (RA3-6B2)	BD Biosciences	563894	
B6.CD45.1 congenic mice	Sankyo Labo Service	N/A	
Baytril 10%	BAYER	341106546	
BD FACS Aria II special order system	BD	N/A	
Brilliant stain buffer	BD	566349	
CD11b-Alexa Fluor 700 (M1/70)	BioLegend	101222	
CD11b-Biotin (M1/70)	BioLegend	101204	
CD11b-BUV395 (M1/70)	BD Biosciences	563553	
CD11b-BV711 (M1/70)	BD Biosciences	563168	
CD127-Alexa Fluor 700 (A7R34)	Invitrogen	56-1271-82	
CD150-BV421 (TC15-12F12.2)	BioLegend	115943	
CD16/CD32-Alexa Fluor 700 (93)	Invitrogen	56-0161-82	
CD34-Alexa Fluor 647 (RAM34)	BD Biosciences	560230	

CD34-FITC (RAM34)	Invitrogen	11034185	
CD3-Alexa Fluor 700 (17A2)	BioLegend	100216	
CD3ε -Biotin (145-2C11)	BioLegend	100304	
CD3ε -BV421 (145-2C11)	BioLegend	100341	
CD45.1/CD45.2 congenic mice	N/A	N/A	Bred in our Laboratory
CD45.1-FITC (A20)	BD Biosciences	553775	
CD45.2-PE (104)	BD Biosciences	560695	
CD4-Alexa Fluor 700 (GK1.5)	BioLegend	100430	
CD4-Biotin (GK1.5)	BioLegend	100404	
CD8a-Alexa Fluor 700 (53-6.7)	BioLegend	100730	
CD8a-Biotin (53-6.7)	BioLegend	100704	
Centrifuge Tube 15ml	NICHIRYO	00-ETS-CT-15	
Centrifuge Tube 50ml	NICHIRYO	00-ETS-CT-50	
c-Kit-APC-eFluor780 (2B8)	Invitrogen	47117182	
D-PBS (-) without Ca and Mg, liquid	Nacalai	14249-24	
Fetal Bovine Serum	Thermo Fisher	10270106	
Flk2-PerCP-eFluor710 (A2F10)	eBioscience	46135182	
FlowJo version 10	BD Biosciences	https://www.flowjo.com/solutions/flowjo	
Gmmacell 40 Extractor	Best theratronics	N/A	
Gr-1-Alexa Fluor 700 (RB6-8C5)	BioLegend	108422	
Gr-1-Biotin (RB6-8C5)	BioLegend	108404	
<i>Hoxb5</i> -tri-mCherry mice (C57BL/6J background)	N/A	N/A	Bred in our Laboratory
IgG from rat serum, technical grade, >=80% (SDS-PAGE), buffered aqueous solution	Sigma-Aldrich	I8015-100MG	
isoflurane	Pfizer	4987-114-13340-3	
Kimwipes S200	NIPPON PAPER CRECIA	6-6689-01	
LS Columns	Milteny biotec	130-042-401	
Lysis buffer	BD	555899	
MACS MultiStand	Milteny biotec	130-042-303	
Microplate for Tissue Culture (For Adhesion Cell) 6Well	IWAKI	3810-006	
MidiMACS Separator	Milteny biotec	130-042-302	
Mouse Pie Cages	Natsume Seisakusho	KN-331	
Multipurpose refrigerated Centrifuge	TOMY	EX-125	
NARCOBIT-E (II)	Natsume Seisakusho	KN-1071-I	
NK-1.1-PerCP-Cy5.5 (PK136)	BioLegend	108728	
Penicillin-Streptomycin Mixed Solution	nacalai	26253-84	
Porcelain Mortar φ120mm with Pestle	Asone	6-549-03	
Protein LoBind Tube 1.5 mL	Eppendorf	22431081	
Sca-I-BUV395 (D7)	BD Biosciences	563990	
Stainless steel scalpel blade	FastGene	FG-B2010	
Streptavidin-BUV737	BD Biosciences	612775	
SYTOX-red	Invitrogen	S34859	
Tailveiner Restrainer for Mice standard	Braintree	TV-150 STD	

TCRb-BV421 (H57-597)	BioLegend	109230	
Ter-119-Alexa Fluor 700 (TER-119)	BioLegend	116220	
Ter-119-Biotin (TER-119)	BioLegend	116204	
Terumo 5ml Concentric Luer-Slip Syringe	TERUMO	SS-05LZ	
Terumo Hypodermic Needle 23G x 1	TERUMO	NN-2325-R	