

Materials List for:

# Identification of a Murine Erythroblast Subpopulation Enriched in Enucleating Events by Multi-spectral Imaging Flow Cytometry

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URL: <https://www.jove.com/video/50990>

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## Materials

Name	Company	Catalog Number	Comments
αMEM medium	CellGro	15-012-CV	
IMDM medium	Hyclone (Thermo Scientific)	SH30228.01	
Stempro-34 SFM	GIBCO (Life Tech)	10640	
Stempro-34 nutrient supplement	GIBCO (Life Tech)	10641-025	
Fetal Bovine Serum (FBS)	Atlanta Biologicals	512450	
BIT9500	Stemcell Technologies	09500	
Bovine Serum Albumin (BSA)	Fisher Scientific	BP-1600-100	
Phosphate buffered saline (PBS)	Hyclone (Thermo Scientific)	SH30028.02	
Penicillin/Streptomycin	Hyclone (Thermo Scientific)	SV30010	
L-glutamine	Hyclone (Thermo Scientific)	SH30590.01	
Isothesia (Isoflurane)	Butler-Schein	029405	
Histopaque 1.083 mg/ml	Sigma	10831	
BD Pharmlyse (RBC lysis buffer)	BD Biosciences	555899	
Acetone	Sigma-Aldrich	534064	
Formaldehyde	Fisher Scientific	BP 531-500	
Hydrocortisone	Sigma	H4001	
Stem Cell Factor (SCF)	Peptotech	250-03	
Interleukin-3 (IL-3)	Peptotech	213-13	
EPOGEN Epoetin Alfa (Erythropoietin, EPO)	AMGEN	available by pharmacy	
CD44-FITC antibody	BD Pharmingen	553133	
CD71-FITC antibody	BD Pharmingen	553266	
Ter119-PECy7 antibody	BD Pharmingen	557853	
Phalloidin-AF488	Invitrogen (Life Technologies)	A12379	
β-tubulin-AF488 antibody	Cell Signaling	#3623	
anti-rabbit AF488-secondary antibody	Invitrogen (Life Technologies)	A11008	
anti-rabbit AF555-secondary antibody	Invitrogen (Life Technologies)	A21428	
AF594-cholera toxin B subunit	Invitrogen (Life Technologies)	C34777	
pMRLC (Ser19) antibody	Cell Signaling	#3671	
γ-tubulin antibody	Sigma	T-3559	
Syto16	Invitrogen (Life Technologies)	S7578	
Draq5	Biostatus	DR50200	

Ferrous sulfate	Sigma	F7002	
Ferric nitrate	Sigma	F3002	
EDTA	Fisher Scientific	BP120500	
15-ml tubes	BD Falcon	352099	
50-ml tubes	BD Falcon	352098	
6-well plates	BD Falcon	353046	
24-well plates	BD Falcon	351147	
Flow tubes	BD Falcon	352008	
Tuberculin syringe	BD	309602	
Insulin syringe	BD	329461	
Syringe needle 25-G 5/8	BD	305122	
Capped flow tubes	BD	352058	
40- $\mu$ m cell strainer	BD Falcon	352340	
Scalpel (disposable)	Feather	2975#21	
FACS Canto Flow Cytometer	BD		
ImagestreamX Mark II Imaging Flow Cytometer	AMNIS (EMD Millipore)		
Image Data Exploration and Analysis Software (IDEAS) version 4.0 and up.	AMNIS (EMD Millipore)		
Hemavet 950 Cell Counter	Drew Scientific	CDC-9950-002	
NAPCO series 8000WJ Incubator	Thermo scientific		
Allegra X-15R Centrifuge	Beckman Coulter	392932	
Mini Mouse Bench centrifuge	Denville	C0801	