

Materials List for:

Fluorescence-activated Cell Sorting for Purification of Plasmacytoid Dendritic Cells from the Mouse Bone Marrow

Xiaofeng Liao¹, Melissa Makris², Xin M. Luo¹

¹Department of Biomedical Sciences and Pathobiology, Virginia-Maryland College of Veterinary Medicine, Virginia Polytechnic Institute and State University

²Flow Cytometry Laboratory, Virginia-Maryland College of Veterinary Medicine, Virginia Polytechnic Institute and State University

Correspondence to: Xin M. Luo at xinluo@vt.edu

URL: <https://www.jove.com/video/54641>

DOI: [doi:10.3791/54641](https://doi.org/10.3791/54641)

Materials

Name	Company	Catalog Number	Comments
RPMI 1640	gibco by life technologies	11875-093	
Fetal bovine serum	HyClone	SH30396.03	
Sodium pyruvate	gibco by life technologies	11360-070	
MEM non-essential amino acids	gibco by life technologies	11140-050	
HEPES	gibco by life technologies	15630-080	
2-mercaptoethanol	gibco by life technologies	21985-023	
L-glutamine	gibco by life technologies	25030-164	
Penicillin-Streptomycin	gibco by life technologies	15140-122	
1x Hank's Balanced Salt Solution	gibco by life technologies	14175-079	
MACS BSA Stock Solution	Miltenyi Biotec	130-091-376	
MgCl ₂	SIGMA	M8266	
DNase I	SIGMA	D4527	
Red blood cell (RBC) lysis buffer	eBioscience	00-4300-54	
Density gradient medium	GE Healthcare	17-1440-02	Ficoll-Paque Plus
anti-mouse CD19-PE	BD Pharmingen	553786	
anti-mouse CD11c-PE	eBioscience	12-0114-82	
anti-mouse CD11b-APC-CY7	BD Pharmingen	557657	
anti-mouse PDCA-1-FITC	eBioscience	11-3172-81	
anti-mouse B220-V500	BD Pharmingen	561226	
DAPI	invitrogen	D3571	
Plasmacytoid Dendritic Cell Isolation Kit II, mouse	Miltenyi Biotec	130-092-786	
BD FACSAria I flow cytometer	BD Biosciences	643178	
BD FACS Diva version 6	BD Biosciences		