

Materials List for:

# An *In Vivo* Mouse Model to Measure Naïve CD4 T Cell Activation, Proliferation and Th1 Differentiation Induced by Bone Marrow-derived Dendritic Cells

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URL: <https://www.jove.com/video/58118>

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## Materials

Name	Company	Catalog Number	Comments
Ethanol	VWR Chemicals	20,824,365	5 L
Scissors	Fine Science Tools (F.S.T.)	14001-12	
Forceps	Fine Science Tools (F.S.T.)	11000-13	
Fine Forceps	Fine Science Tools (F.S.T.)	11253-20	
Scalpel	Fine Science Tools (F.S.T.)	10020-00	Box of 100 blades
Fetal Bovine Serum	SIGMA	F7524	
Penicillin/streptomycin	LONZA	DE17-602E	
Roswell Park Memorial Institute medium (RPMI)	GIBCO	21875-034	
Sterile Petri dishes	Falcon	353003	
25-gauge needle	BD Microlance 3	300600	
1 ml syringe	Novico	N15663	
15 ml conical tubes	Falcon	352096	
50 ml conical tubes	Falcon	352098	
70 µm nylon web filter	BD Falcon	352350	
Red blood lysis buffer	SIGMA	R7757	100 MI
EDTA	SIGMA	ED2SS-250	
Bovine Serum Albumin	SIGMA	A7906	100 g
Trypan blue	SIGMA	302643-25G	
Culture-plates	Falcon	353003	
4-(2-hydroxyethyl)-1-piperazineethanesulfonic acid (HEPES)	Cambrex	BE17-737E	
Beta-mercaptoethanol	Merck	8-05740-0250	
Sodium pyruvate	LONZA	BE13-115E	
L-glutamine	LONZA	BE17-605E	
Recombinant murine Granulocyte Macrophage colony-stimulating factor (GM-CSF)	Preprotech	315-03	
lipopolysaccharide (LPS)	SIGMA-ALDRICH	L2018	
96-well-plate	Costar	3799	
v450 anti-mouse CD11b antibody	BD Biosciences	560455	
PE anti-mouse CD64 antibody	BioLegend	139303	
PE anti-mouse CD115 antibody	BioLegend	135505	

FITC anti-mouse CD11c antibody	BioLegend	117305	
FITC anti-mouse MHCII antibody	BioLegend	125507	
APC anti-mouse CD86 antibody	BioLegend	105011	
APC anti-mouse CD80 antibody	BioLegend	104713	
Flow Cytometry tubes	Zelian	300800-1	PS 12X75 5mL
OIII Ovoalbumine peptide	InvivoGen	323-339	
anti-mouse biotinylated CD8 $\alpha$ antibody	Tonbo Biosciences	30-0081-U500	
anti-mouse biotinylated IgM antibody	BioLegend	406503	
anti-mouse biotinylated B220 antibody	Tonbo Biosciences	30-0452-U500	
anti-mouse biotinylated CD19 antibody	Tonbo Biosciences	30-0193-U500	
anti-mouse biotinylated MHCII (I-Ab) antibody	BioLegend	115302	
anti-mouse biotinylated CD11b antibody	Tonbo Biosciences	30-0112-U500	
anti-mouse biotinylated CD11c antibody	BioLegend	117303	
anti-mouse biotinylated CD44 antibody	BioLegend	103003	
anti-mouse biotinylated CD25 antibody	Tonbo Biosciences	30-0251-U100	
anti-mouse biotinylated DX5 antibody	BioLegend	108903	
streptavidin-coated magnetic microbeads	MACS Miltenyi Biotec	130-048-101	
Magnetic cell separator	MACS Miltenyi Biotec	130-090-976	QuadroMACS Separator
Separation columns	MACS Miltenyi Biotec	130-042-401	
PE anti-mouse CD4 antibody	BioLegend	100408	
APC anti-mouse CD3 antibody	BioLegend	100235	
FITC anti-mouse CD8 antibody	Tonbo Biosciences	35-0081-U025	
Cell Violet Tracer	Thermofisher	C34557	
APC anti-mouse CD25 antibody	Tonbo Biosciences	20-0251-U100	
Alexa647 anti-mouse CD69 antibody	BioLegend	104518	
PerCPCY5.5 anti-mouse CD45.1 antibody	Tonbo Biosciences	65-0453	
APC anti-mouse CD45.1 antibody	Tonbo Biosciences	20-0453	
PECY7 anti-mouse CD45.1 antibody	Tonbo Biosciences	60-0453	
FITC anti-mouse CD45.2 antibody	Tonbo Biosciences	35-0454	
Ionomycin	SIGMA-ALDRICH	I0634	
Phorbol 12 Myristate 13 Acetate (PMA)	SIGMA	P8139	
Brefeldin A (BD GolgiPlug)	BD	555029	
Paraformaldehyde	Millipore	8-18715-02100	
Intracellular permeabilization buffer	eBioscience	00-8333	
APC anti-mouse IFN $\gamma$ antibody	Tonbo Biosciences	20-7311-U100	
Fc-block (anti-mouse CD16/CD32)	Tonbo Biosciences	70-0161-U100	

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B6.SJL CD45.1 mice	The Jackson Laboratory	002014	
BD LSRFortessa™ Cell Analyzer	BD Biosciences	649225	
DAPI Solution	Thermofisher	62248	