

Materials List for

Investigating Target Gene Function in a CD40 Agonistic Antibody-induced Colitis Model using CRISPR/Cas9-based Technologies

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jove.com/video/61618

Materials

Name	Company	Catalog Number	Comments
6-well tissue culture plates	Corning/Costar	#3506	
TransIT-LT1	Mirus Bio	MIR 2300/5/6	
MACS Buffer (autoMACS Running Buffer)	Miltenyi Biotec	130-091-221	
0.45 µm filter unit	Millipore	#SLHV013SL	
0.6 mL microcentrifuge Tube	Axygen	MCT-060-C-S	
1.5 mL Eppendorf Tube	Axygen	MCT-150-C-S	
15mL Conical	VWR	21008-918	
23 G Needle	VWR	#305145	
24 Well Non-TC Plates	Falcon	#351147	
24-Well TC Plates	Falcon	#353047	
50 mL Conical tube	VWR	21008-951	
5 mL Syringe	BD Biosciences	#309647	
70 µm Filter	Miltenyi	#130-098-462	
96-Well Flat Bottom Plates	Corning	#3599	
96-Well U-Bottom Plates	Corning/Costar	#3365	
Anesthesia Machine	VetEquip - COMPAC5	#901812	
Anti-CD40 Agonist monoclonal antibody	BioXcell	BE-0016	
Anti-p40 monoclonal antibody	BioXcell	BE-0051	
B220 PE Antibody	BioLegend	#103208	
Bovine serum albumin	Sigma Aldrich	A7906-100G	
Cas9 Knock-in Mice	Jackson Labs	#026179	C57Bl/6 background
CD117+ Beads	Miltenyi	#130-091-224	
CD11b PE Antibody	BioLegend	#101208	
CD3 PE Antibody	BD Biosciences	#553240	

Centrifuge	Beckman Coulter	Allegra 6KR Centrifuge	
Countertop Centrifuge	Eppendorf	Centrifuge 5424	
DPBS	ThermoFisher	#14190136	
Dulbecco's Modified Eagle Medium	Mediatech	#10-013-CV	
Ethylenediamine tetraacetic acid (EDTA)	Invitrogen	AM9260G	
Endoscope	Karl Storz	N/A	Custom Coloview Tower
Flow cytometer	BD Biosciences	FACS Aria II	
Fms-related tyrosine kinase 3 ligand (Flt-L)	PeproTech	#250-31L	
Gr-1 PE Antibody	BD Biosciences	#553128	
Hank's balanced salt solution (HBSS)	ThermoFisher	#14170120	
Heat-Inactivated Fetal Bovine Serum	HyClone	#SH30071.03	
IL-7	PeproTech	#217-17	
Incubator	Binder	#9040-0116	
Isoflurane	HenrySchein	#6679401710	
LS Column	Miltenyi	#130-042-041	
Ly5.1 Pepboy Mice	Jackson Labs	#002014	C57Bl/6 background
mouse stem cell factor (mSCF)	PeproTech	#250-03	
Sodium chloride (NaCl)	Hospira	#00409488850	
OPTI-MEM serum-free media	Invitrogen	#31985-070	
Penicillin-streptomycin (PenStrep)	ThermoFisher	#15140-122	
Plate Shaker	ThermoFisher	#88880023	
pLentiPuro	Addgene	#52963	
Polybrene (10 µg/µL)	Sigma Aldrich	#TR-1003-G	
Red Blood Cell Lysis Buffer	eBioscience	#00-4333	
Retronectin	Takarbio	#T100B	
Sca-1 APC Antibody	BioLegend	#108112	
StemSpan	StemCell Technologies	#09600	
Ter119 PE Antibody	eBioscience	#12-5921	
Thrombopoietin (TPO)	PeproTech	#315-14	
X-ray Irradiator	Precision X-Ray	X-Rad 320	