

Materials List for:

Enrichment and Characterization of the Tumor Immune and Non-Immune Microenvironments in Established Subcutaneous Murine Tumors

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Materials

Name	Company	Catalog Number	Comments
6 to 12 week old male C57BL/6 mice	Jackson Laboratory	N/A	Mice used in our tumor studies
MEER Murine Syngeneic Cancer Cell line	Acquired from collaborator	N/A	E6/E7 HPV antigen expressing murine tonsillar epithelial cancer cell line
70% isopropyl alcohol	EMD Milipore	PX1840	
Murine surgical tool kit	World Precision Instruments	MOUSEKIT	Primarily only need scissors, tweezers, and a scalpel.
24-well plate	Denville Scientific Inc.	T1024	Or any 24-well flat bottom plate.
RPMI-1640 media	Sigma-Aldrich	R0883	
Collagenase I	EMD Milipore	234153	
Collagenase IV	Worthington Biochemical Corporation	LS004189	
DNase I	Sigma-Aldrich	11284932001	
Low Speed Orbital Shaker	BioExpress (supplier: Genemate)	S-3200-LS	Or any orbital shaker.
Thermoregulating incubator	Fisher Scientific	13-255-27	Or any other thermo-regulated incubator
FBS	Sigma-Aldrich	F8192	
EDTA	AMRESCO	E177	
1 mL Pipette and tips	Eppendorf	13-690-032	Or any other pipette and tips
40 um Cell Strainers	Fisher Scientific	22363547	
50 mL Centrifuge Tubes	Denville Scientific Inc.	C1062-P	
15 mL Conical Tubes	Denville Scientific Inc.	C1012	
10 mL Luer-Lok Syringe without needles	BD	309604	
Lymphoprep Density Gradient Medium	STEMCELL Technologies	7811	
Transfer Pipettes	Denville Scientific Inc.	P7212	
96-well U-bottom plates	Denville Scientific Inc.		
DPBS	Sigma Aldrich	D8573	
FoxP3 Transcription Factor Staining Buffer Set	ThermoFisher Scientific	00-5523-00	Fix/Permeabilization Buffer and Permeabilization Buffer
Thermoregulated Centrifuge	Eppendorf	5810 R	
Attune NxT Flow Cytometer	ThermoFisher Scientific	N/A	For 96-well cell volumetric counting

Purified Rat Anti-Mouse CD16/ CD32 (Mouse BD Fc Block) Clone 2.4G2	ThermoFisher Scientific	553141	Fc Block
LIVE/DEAD Fixable Blue Dead Cell Stain Kit, for UV excitation	ThermoFisher Scientific	L34962	Fixable viability stain
CD45 Monoclonal Antibody (30- F11), APC-eFluor 780	ThermoFisher Scientific	47-0451-80	
TCR beta Monoclonal Antibody (H57-597), APC	ThermoFisher Scientific	17-5961-82	
CD8- α Antibody (KT15), PE	Santa Cruz Biotechnology	sc-53473	
CD4 Monoclonal Antibody (GK1.5), PE-Cyanine5	ThermoFisher Scientific	15-0041-81	
MHC Class II (I-A/I-E) Monoclonal Antibody (M5/114.15.2), Alexa Fluor 700	ThermoFisher Scientific	56-5321-82	
CD11c Monoclonal Antibody (N418), PE-Cyanine5	ThermoFisher Scientific	15-0114-82	
F4/80 Monoclonal Antibody (BM8), eFluor 450	ThermoFisher Scientific	48-4801-80	
CD11b Monoclonal Antibody (M1/70), APC	ThermoFisher Scientific	17-0112-81	
Ly-6G (Gr-1) Monoclonal Antibody (RB6-8C5), PE	ThermoFisher Scientific	12-5931-82	
CD274 (PD-L1, B7-H1) Monoclonal Antibody (MIH5), PE-Cyanine7	ThermoFisher Scientific	25-5982-80	
CD273 (B7-DC) Monoclonal Antibody (122), PerCP-eFluor 710	ThermoFisher Scientific	46-9972-82	
Ki-67 Monoclonal Antibody (B56), BV711	BD Biosciences	563755	