

Materials List for:

Studying the Role of Alveolar Macrophages in Breast Cancer Metastasis

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Materials

Name	Company	Catalog Number	Comments
4T1 cell line	American Type Culture Collection, Manassas, VA, USA	CRL 2539	Tumor cells
4T1-GFP cell line	Caliper life sciences/ Perkin Elmer, Waltham, MA, USA	BW128090	Tumor cells
RPMI	Corning, Corning, NY, USA	10-040-CM	Media
Heat inactivated FBS	Gibco (Thermo Scientific), USA	10082147	Media
Penicillin Streptomycin	Fisher Scientific, Waltham, MA, USA	MT-300-02-CI	Media
PBS	Fisher Scientific, Waltham, MA, USA	BP399-20	Dilute with distilled water
Trypsin 0.25% with EDTA	Hyclone, Logan, Utah, USA	SH30042.02	Tissue culture supplies
T75 cm ² flask	Fisher Scientific, Waltham, MA, USA	12-565-32	Tissue culture supplies
15 ml conical tube	BD falcon, Franklin Lakes, NJ, USA	352096	Tissue culture supplies
50 ml conical tube	BD falcon, Franklin Lakes, NJ, USA	352098	Tissue culture supplies
60 mm ² Petri dish	Fisher Scientific, Waltham, MA, USA	AS4052	For lung imaging
Isoflurane (Isothesia)	Butler Schein Animal health, Dublin, OH, USA	NDC 11695-6776-2	Mouse anesthesia
Clodronate liposomes	Formumax Scientific Inc, Palo Alto, CA, USA	F70101C-N	Macrophages depletion
Control liposomes	Formumax Scientific Inc, Palo Alto, CA, USA	F70101-N	Control PBS-liposomes
29 gauge insulin syringes (12.7 mm and 0.5 ml capacity)- Reli-On	Walmart, Bentonville, AR, USA		For tumor cell injection
Hair removal cream (Nair)	Walmart, Bentonville, AR, USA		
Paraformaldehyde solution (4%)	Affymetrix, Santa Clara, CA, USA	19943-I Lt	Dilute to 4% or 1% using 1x PBS
OCT compound	Fisher Scientific, Waltham, MA, USA	230-730-571	For freezing tissue in cryomolds
Fluoro-Gel-II with DAPI	Electron Microscopy Sciences, Hatfield, PA, USA	17985-51	Mounting medium
Sucrose	Sigma, St. Louis, MO, USA	S-9378	Cryopreservation
Collagenase P	Roche, Basel, Switzerland	11249002001	Components of tissue digestion buffer
Dnase I	Roche, Basel, Switzerland	10104159001	Components of tissue digestion buffer

Trypsin inhibitor	Sigma, St. Louis, MO, USA	T9253	Components of tissue digestion buffer
40 micron cell strainers	Fisher Scientific, Waltham, MA, USA	22-363-547	Used in tissue digestion to remove clumps
Trustain FcX-Fc Block (CD16/CD32)	Biolegend, San Diego, CA, USA	101320	Antibodies for flow cytometry
BV605 CD45	Biolegend, San Diego, CA, USA	103139	Antibodies for flow cytometry
PE CD11b	Biolegend, San Diego, CA, USA	101207	Antibodies for flow cytometry
PE Cy7 F4/80	Biolegend, San Diego, CA, USA	123113	Antibodies for flow cytometry
APC/Cy7 CD11c	Biolegend, San Diego, CA, USA	117323	Antibodies for flow cytometry
PerCPcy5.5 IA/IE (MHCII)	Biolegend, San Diego, CA, USA	107625	Antibodies for flow cytometry
PE CD80	Biolegend, San Diego, CA, USA	104707	Antibodies for flow cytometry
AF647 CD86	Biolegend, San Diego, CA, USA	105019	Antibodies for flow cytometry
Fixable viability Dye eflour 506	eBioscience, San Diego, CA, USA	65-0866	Antibodies for flow cytometry
Cryostat	Leica Biosystems, Buffalo Grove, IL, USA	CM1850	Cryosectioning
UVP iBox Explorer	UVP Inc, Upland, CA, USA		Mouse and lung fluorescent imaging
Aperio Scanscope CS	Leica Biosystems, Buffalo Grove, IL, USA		Digital pathology
BD LSRFortessa	BD Biosciences, Franklin Lakes, NJ, USA		Flow cytometry/data acquisition
Nikon A1 confocal TE2000 microscope	Nikon Instruments Inc., Melville, NY 11747-3064, U.S.A.		Imaging and quantifying GFP fluorescence in lung cryosections
UVP visionworks software (Version 7.1RC3.38)	UVP Inc, Upland, CA, USA		Imaging software for iBOX
Aperio Imagescope software (v12.1.0.5029)	Leica Biosystems, Buffalo Grove, IL, USA		Imaging software for analysis of digital slides
Flow JO software (version 9.8.1)	Flow JO LLC, Ashland, OR, USA		Analysis of flow cytometric data
NIS Elements AR (version 4.20.01) 64 Bit	Nikon Instruments Inc., Melville, NY 11747-3064, U.S.A.		Acquisition and analysis of lung cryosections for GFP