

Materials List for

Xenograft Skin Model to Manipulate Human Immune Responses *In Vivo*

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Materials

Name	Company	Catalog Number	Comments
10% Neutral Buffered Formalin	Fisher	SF100-20	Fixative for histology
3M Vetbond Tissue Adhesive	3M	1469SB	surgical glue
Alexa 700 CD45 monoclonal antibody (Clone 30F11)	Thermo Fischer	56-0451-82	Flow cytometry analysis: Surface protein staining
Anti-GR1 clone RB6-8C5	BioXcell	BE0075	Anti-rejection
APC mouse anti-human CD25 (Clone 2A3)	BD Biosciences	340939	Flow cytometry analysis: Surface protein staining
APC-eFluor 780 anti-human HLA-DR (Clone LN3)	eBioscience	47-9956-42	Flow cytometry analysis: Surface protein staining
Autoclave pouches	VWR	89140-800	For autoclaving tools and paper towels
Brilliant Violet 60 anti-human CD4 antibody (Clone OKT4)	Biolegend	317438	Flow cytometry analysis: Surface protein staining
Brilliant Violet 65 anti-human CD8a antibody (Clone RPA-T8)	Biolegend	301042	Flow cytometry analysis: Surface protein staining
Brilliant Violet 711 anti-human CD3 antibody (Clone OKT3)	Biolegend	317328	Flow cytometry analysis: Surface protein staining
Buprenex 0.3 mg/mL	Covetrus	059122	Analgesia
Carprofen 50 mg/mL	Zoetis	NADA # 141-199	Analgesia
Collagenase Type IV	Worthington	4188	Skin digestion
D42 Dermatome blade	Humeca	5.D42BL10	dermatome (1 blade per sample)
Dermatome D42	Humeca	4.D42	dermatome
Disposable Scalpel	Bard-Parker	371610	skin preparation
Dissecting T-Pins; 1-1/2 inch, 1000/CS 1.5	Cole-Parmer	UX-10915-03	To pin skin specimen for dermatome
Dissection scissors	medicon	02.04.10	sample preparation and mouse dissection
DNase	Sigma-Aldrich	DN25-1G	Skin digestion
eBioscience Foxp3 / Transcription Factor Fixation/Permeabilization Concentrate and Diluent	eBioscience	00-5521-00	Flow cytometry analysis: Cell Fixation and Permeabilization

eFluor-450 FOXP3 monoclonal antibody (Clone PCH101)	eBioscience	48-4776-42	Flow cytometry analysis: Intracellular protein staining
Electric clippers	Kent	CL8787-KIT	hair removal
Epredia Shandon Instant Eosin	Fisher Scientific	6765040	H&E
Epredia Shandon Instant Hematoxylin	Fisher Scientific	6765015	H&E
FITC anti-human CD45 (Clone HI30)	Tonbo Biosciences	35-0459-T100	Flow cytometry analysis: Surface protein staining
Forceps	medicon	07.60.07	sample preparation and mouse dissection
Gauze	Fisherbrand	22-362-178	Sample preparation
Heating lamp	Morganville Scientific	HL0100	Post-surgical care
Heating pads 4" x 10"	Pristech	20415	Surgical heat supply
Insulin 1cc 12.7 mm syringes	BD	329410	drug administration
Isoflurane	United States Pharmacopeia (USP)	NDC 66794-013-25	Anesthesia
Isoflurane machine	VetEquip	911103	Anesthesia
Nair for Men	Nair	†10022600588556	hair removal
Neomycin and Polymyxin Bisulfates and Bacitracin Zinc Ophthalmic ointment	Dechra	NDC 17478-235-35	eye ointment to prevent drying
NOD.Cg-Prkdcscid Il2rgtm1Wjl/SzJ (NSG) mice	The Jackson Laboratory	005557	Mice
Paper towels	Kleenex	100848	May be autoclaved for sterile surfaces
Parafilm	Fisher Scientific	13-374-12	Semitransparent sealing film
PE mouse anti-human CD127 (Clone HIL-7R-M21)	BD Biosciences	557938	Flow cytometry analysis: Surface protein staining
PE-Cy-7 mouse anti-Ki-67 (Clone B56)	BD Biosciences	561283	Flow cytometry analysis: Intracellular protein staining
PerCP-eFluor-710 CD152 (CTLA-4) monoclonal antibody (Clone 14D3)	eBioscience	46-1529-42	Flow cytometry analysis: Intracellular protein staining
Permeabilization Buffer 10x	eBioscience	00-8333-56	Flow cytometry analysis: Intracellular protein staining buffer
Petri Dish 150 mm	Corning	430597	Sample storage
Plastic Wrap	Fisherbrand	22-305-654	Site preparation
Providone-Iodine Swab stick	PDI	S41350	Site sterilization
Soft-Feed and Oral Hydration (Napa Nectar)	Se Lab Group Inc	NC9066511	For supplementing poorly recovering mice post-surgery
Specimen Collection Cups	Fisher Scientific	22-150-266	sample storage
Sterile alcohol prep pad	Fisherbrand	22-363-750	skin preparation
Sterile PBS	Gibco	14190-144	Media for sample storage
Sterile saline	Hospira	NDC 0409-4888-02	For drug dilution
Tegaderm Film 4" x 4 ^{3/4} "	3M	1626	transparent film wound dressing
Vaseline Petrolatum Gauze 3" x 8"	Kendall	414600	wound dressing
Violet 510 Ghost Dye	Tonbo Biosciences	13-0870-T100	Flow cytometry analysis: Viability dye