

Materials List for

Analyses of Proteinuria, Renal Infiltration of Leukocytes, and Renal Deposition of Proteins in Lupus-prone MRL/lpr Mice

Xavier Cabana-Puig¹, Xin M. Luo¹

¹Department of Biomedical Sciences and Pathobiology, Virginia-Maryland College of Veterinary Medicine, Virginia Polytechnic Institute and State University

Corresponding Authors

Xavier Cabana-Puig

xavier91@vt.edu

Xin M. Luo

xinluo@vt.edu

Citation

Cabana-Puig, X., Luo, X.M. Analyses of Proteinuria, Renal Infiltration of Leukocytes, and Renal Deposition of Proteins in Lupus-prone MRL/lpr Mice. *J. Vis. Exp.* (184), e63506, doi:10.3791/63506 (2022).

Date Published

June 8, 2022

DOI

10.3791/63506

URL

jove.com/video/63506

Materials

Name	Company	Catalog Number	Comments
10x Tris-Buffered Saline (TBS)	Thermo Fisher Scientific	J60764.K2	
2-mercaptoethanol	Thermo Fisher Scientific	21985-023	
Anti-Human/Mouse C3	Cedarlane	CL7632F	
Anti-Mouse CD138 BV711	Biolegend	142519	
Anti-Mouse CD45 AF700	Biolegend	103127	
Bovine Serum Albumin	Sigma-Aldrich	A9418-100G	
Collagenase D	Sigma-Aldrich	11088882001	
Confocal Microscope LSM 880	Zeiss	LSM 880	
Coplin jar	Fisher Scientific	50-212-281	
Cryomold	Fisher Scientific	NC9511236	
Density gradient medium	GE Healthcare	17-1440-02	Percoll
DEPC-Treated water	Thermo Fisher Scientific	AM9906	
DNase I	Sigma-Aldrich	D4527	
dsDNA-EC	InvivoGen	tlrl-ecdna	
Ethylenediaminetetraacetic Acid	Fisher Scientific	S311-500	EDTA
EVOS M5000 Microscope imaging system	Thermo Fisher Scientific	AMF5000	
FACS Fusion Cell sorter	BD Biosciences	FACS Fusion	
Fetal Bovine Serum - Premium, Heat Inactivated	R&D systems	S11150H	
Fisherbrand 96-Well Polystyrene Plates	Fisher Scientific	12-565-501	
Graphpad prism	GraphPad	N/A	
Hank's Balanced Salt Solution	Thermo Fisher Scientific	14175-079	
HEPES	Thermo Fisher Scientific	15630-080	
ImageJ software	National Institutes of Health	N/A	

Lactobacillus reuteri Kandler et al.	ATCC	23272	
MEM non-essential amino acids	Thermo Fisher Scientific	11140-050	
MRL/MpJ-Fas Ipr /J Mice (MRL/Ipr)	Jackson Lab	485	
Nail enamel	N/A	N/A	Any conventional store
O.C.T compound	Tisse-Tek	4583	
PAP pen	Sigma-Aldrich	Z377821	
Peel-A-Way Disposable Embedding Molds	Polysciences	R-30	
Penicillin-Streptomycin	Thermo Fisher Scientific	15140-122	
Phosphate-buffered saline (PBS)	Thermo Fisher Scientific	70011069	
Pierce 20x TBS Buffer	Thermo Fisher Scientific	28358	
Pierce Coomassie Plus (Bradford) Assay kit	Thermo Fisher Scientific	23236	Albumin standard included
ProLon Gold Antifade Mountant	ThermoFisher	P36934	
Purified Rat Anti-Mouse CD16/CD32	BD Biosciences	553141	FcR block
RPMI 1640	Thermo Fisher Scientific	11875-093	
Sodium pyruvate	Thermo Fisher Scientific	11360-070	
SpectraMax M5	Molecular Devices	N/A	SoftMax Pro 6.1 software
Sterile cell Strainers 100 µM	Fisher Scientific	22363549	
Tween 20	Fisher Scientific	BP337-500	
Vancomycin Hydrochloride	Goldbio	V-200-1	
Zombie Aqua	Biolegend	423102	fluorescent dye for flow cytometry analysis