

Materials List for:

Vasodilation of Isolated Vessels and the Isolation of the Extracellular Matrix of Tight-skin Mice

Dorothee Weihrach¹, John G. Krolkowski^{1,2}, Deron W. Jones³, Tahniyath Zaman³, Omoshalewa Bamkole¹, Janine Struve⁴, Paul S. Pagel⁵, Nicole L. Lohr⁶, Kirkwood A. Pritchard, Jr.³

¹Department of Anesthesiology, Medical College of Wisconsin

²Clement J. Zablocki Veterans Affairs Medical Center

³Department of Surgery, Division of Pediatric Surgery, Children's Research Institute

⁴Department of Orthopedic Surgery, Medical College of Wisconsin

⁵Department of Anesthesiology, Clement J. Zablocki Veteran Affairs Medical Center

⁶Department of Medicine, Division of Cardiology, Medical College of Wisconsin

Correspondence to: Dorothee Weihrach at dorothee@mcw.edu

URL: <https://www.jove.com/video/55036>

DOI: [doi:10.3791/55036](https://doi.org/10.3791/55036)

Materials

Name	Company	Catalog Number	Comments
Triton X 100	Sigma Aldrich	X100- 100ml	
Alexa 488-labeled goat anti-mouse IgG antibody	Thermo Fisher	A11001	
Bardford reagent	Thermo Fisher	23200	Pierce
Biosensors	Forte-Bio	MR18-0009	
CD64 (H-250)	Santa Cruz Biotechnologies	sc-15364	
CellEvent Caspase-3/7 Substrate	Thermo Fisher/Life Technologies	C10427	
CellTiter AQueous One Solution Cell Proliferation Assay kit	Promega	G3580	Promega
DAPI (4',6-diamidino-2-phenylindole)	Thermo Fisher	D-1306	1:1,000 dilution in PBS
donkey anti rat Alexa 488	Thermo Fisher	A-21208	1:1,000 dilution in PBS
ECL plus	GE healthcare/Amersham	RPN2133	After a lot of trial and error we came back to this one
Eclipse TE 200-U microscope with EZ C1 laser scanning software	Nikon		
goat anti rabbit Alexa 488	Thermo Fisher	A-11008	1:1,000 dilution in PBS
HRP anti-goat	Santa Cruz Biotechnologies	sc-516086	1:10,000 dilution in TBS
HRP donkey anti-mouse	Santa Cruz Biotechnologies	sc-2315	1:10,000 dilution in TBS
ICAM-1 antibody	Santa Cruz Biotechnologies	sc-1511	1:200 dilution in PBS
IRF5 antibody (H56)	Santa Cruz Biotechnologies	sc-98651	
Micro plate reader Elx800	Biotek		
NIMP neutrophil marker	Santa Cruz Biotechnologies	sc-133821	1:200 dilution in PBS
Octet RED	Forte Bio		protein-protein binding
Peptide design Medit SA software	RCSB.org		
Recombinant IRF5 protein synthesis	TopGene Technologies		protein expression, synthesis service
sodium dodecyl phosphate	Sigma Aldrich	436143	detergent
Ketamine	Pharmacy		Schedule III controlled substance, prescription required
Xylazine	MedVet		

3.5X-45X Trinocular Dissecting Zoom Stereo Microscope with Gooseneck LED Lights	Am Scope	SKU: SM-1TSX-L6W	
Zeba Desalting Columns	Thermofisher	2161515	
Endothelial Basal Media EBM Bullet kit	Lonza	CC-3124	kit contains growth supplement
VIA-100K	Boeckeler Instruments		
4 - 15% TGX gel	Bio-Rad	5671081	
MedSuMo software	Medit, Palaiseau, France		
Laemmli Buffer	BioRad		