

## SUPPLEMENTARY TABLE

Supplementary Table 1. List of antibodies.

Primary antibody	Antibody to identify	Raised in	Working dilution	Antigen retrieval buffer	Source/catalog number
<b>p57</b>	Podocytes	Rabbit	1:800	EDTA buffer pH6	Santa Cruz Biotechnology, Santa Cruz, CA, USA sc8298
<b>Collagen type IV</b>	Glomerular injury	Rabbit	1:200	EDTA buffer pH6	Southern Biotechnology, Birmingham, AL, USA 1430-01
<b>Synaptopodin</b>	Actin-associated protein in renal podocytes	Mouse	1:500	EDTA buffer pH8	Fitzgerald Industries International. Inc., Concord, MA RDI-PRO65194
<b>Nephrin</b>	Slit diaphragm of podocytes	Guinea pig	1:1500	EDTA buffer pH6	Fitzgerald Industries International. Inc., Concord, MA RDI-PROGPN2
<b>Podocin</b>	Podocytes	Rabbit	1:4000	EDTA buffer pH6	Abcam, Cambridge, MA, USA Ab50339
<b>WT1</b>	Podocytes	Rabbit	1:500	Citrate buffer pH6	Abclonal Science, Woburn, MA, USA A2446
<b>Nephrin (Y17-R)</b>	Extracellular Domain	Rabbit	1:100	MACS	MyBiosource.com MBA684100
<b>Nephrin (G17-H)</b>	Extracellular Domain	Rabbit	1:100	MACS	MyBiosource.com MBS684143
<b>Desmin</b>	Podocyte injury/stress marker	Rabbit	1:1000	Citrate buffer pH 6	Abcam, Cambridge, MA, USA ab15200
<b>VEGF-A</b>	Podocyte synthesis	Rabbit	1:200	Citrate buffer pH 6	Abcam, Cambridge, MA, USA ab52917
<b>NLRP3</b>	Formation of inflammasome	Rabbit	1:200	Citrate buffer pH6	Signalway Antibody, Greenbelt, Maryland, USA 49012-1
<b>Caspase-1</b>	NLRP3 downstream target	Rabbit	1:200	Citrate buffer pH 6	Enzo Life Science, Farmingdale, NY, USA ALX-210-804-C100
<b>IL-1B</b>	NLRP3 downstream target	Rabbit	1:200	Citrate buffer pH 6	Thermo Fisher Scientific, Waltham, MA, USA P420B
<b>IL-18</b>	NLRP3 downstream target	Rabbit	1:100	Citrate buffer pH 6	Rockland Immunochemicals, Gilbertsville, PA, USA 210-401-323
<b>GRP94</b>	Endoplasmic reticulum stress	Rabbit	1:200	Citrate buffer pH 6	Thermo Fisher Scientific, Waltham, MA, USA MA3-016
<b>Cleaved caspase 3 antibody</b>	Apoptosis	Rabbit	1:200	Citrate buffer pH 6	Cell Signaling, Danvers, MA, USA 9579S
<b>LC3</b>	Autophagy	Rabbit	1:200	Citrate buffer pH 6	Sigma-Aldrich, St. Louis, MO, USA L8918
<b>CD31</b>	Endothelial cells	Rat	1:200	Citrate buffer pH 6	Dianova, Hamburg, Germany DIA-310
<b>PV1</b>	Microvascular endothelial cells	Rabbit	1:100	EDTA buffer pH6	(PV1) antibody (1:100, BD Bioscience, San Jose, CA 550563

<b><math>\alpha</math>8 integrin</b>	Mesangial cells	Goat	1:100	Citrate buffer pH 6	R&D Systems Inc., Minneapolis, MN, USA BAF4076
<b>Lotus Tetragonolobus Lectin/LTL</b>	Proximal tubular epithelial cells	Tetragonolobus purpureus	1:500	Citrate buffer pH 6	Vector Labs, Burlingame, CA, USA B-1325-2
<b>Megalyn/LRP2</b>	Proximal tubular epithelial cells	Rabbit	1:1000	Citrate buffer pH 6	Sino Biological, Wayne, PA, USA 106515-T08
<b>p16INK4a-N-terminal</b>	Senescence	Rabbit	1:1000	Citrate buffer pH 6	Abcam, Cambridge, MA, USA ab189034
<b>SA-<math>\beta</math>-galactosidase</b>	Senescence	Chemical component	1:1000	None	Cell Signaling, Danvers, MA, USA 9860S
<b>PAX8</b>	Parietal epithelial cells	Rabbit	1:500	EDTA buffer pH6	Protein Tech Group, Chicago, IL, USA 10336-1-AP
<b>CD44</b>	“Activated” parietal epithelial cells	Rat	1:50	Citrate buffer pH 6	BD Biosciences, San Jose, CA, USA 553131
<b>CD74</b>	“Activated” parietal epithelial cells	Rabbit	1:100	Citrate buffer pH 6	BD Biosciences, San Jose, CA), USA 555317
<b>pERK</b>	“Activated” parietal epithelial cells	Rabbit	1:100	Citrate buffer pH 7	Cell Signaling Technology, Beverly, MA, USA 9101S
<b>pS6RP</b>	To determine activation of the mammalian target of rapamycin (mTOR) pathway	Rabbit	1:100	Citrate buffer pH 6	Cell Signaling Technology, Beverly, MA, USA 2217S
<b>Phospho -STAT3</b>	Inflammatory Pathway	Rabbit	1:50	Citrate buffer pH6	Cell Signaling, Danvers, MA, USA 9145T
<b>Phospho-IKK<math>\alpha</math>/<math>\beta</math></b>	NF- $\kappa$ B Pathway	Rabbit	1:50	Citrate buffer pH6	Cell Signaling, Danvers, MA, USA 2697T