

Antigen	Application	Host	Dilution	Catalog #	Source
Primary Antibodies					
Myelin basic protein (MBP)	Immunofluorescence	rat	1:250	MAB386	Millipore
Neurofilament	Immunofluorescence	mouse	1:250	837904	BioLegend
A β peptide 6F3D	Immunohistochemistry	mouse	1:400	M0872	Dako
Collagen IV (Col IV)	Immunofluorescence	rabbit	1:200	ab6586	Abcam
Collagen IV (Col IV)	Immunofluorescence	mouse	1:300	SAB4200500	Sigma
Elastin	Immunofluorescence	rabbit	1:150	AB2039	Millipore
Laminin	Immunofluorescence	rabbit	1:500	ab11575	Abcam
α -Smooth muscle actin	Immunofluorescence	rabbit	1:500	ab5694	Abcam
Amyloid precursor protein, C-terminal	Immunoblot	rabbit	1:2000	171610	Sigma
β -secretase (BACE)	Immunoblot	rabbit	1:2000	5606	Cell Signaling
Nephrilysin (NEP)	Immunoblot	rabbit	1:1000	ab256494	Abcam
Cathepsin B (CatB)	Immunoblot	rabbit	1:2000	31718	Cell Signaling
Osteopontin (OPN)	Immunoblot	rabbit	1:500	ab8448	Abcam
Rho-associated protein kinase 1 (ROCK1)	Immunoblot	rabbit	1:1000	ab134181	Abcam
Rho-associated protein kinase 2 (ROCK2)	Immunoblot	rabbit	1:2000	ab125025	Abcam
Glyceraldehyde 3-phosphate dehydrogenase (GAPDH)	Immunoblot	rabbit	1:50000	G9545	Sigma
Secondary Antibodies					
Rat IgG Alexa 488	Immunofluorescence	donkey	1:200	A21208	Thermo-Fisher
Mouse IgG Alexa 594	Immunofluorescence	goat	1:200	A11032	Thermo-Fisher
Mouse IgG from VECTASTAIN ABC HRP Kit	Immunohistochemistry	horse	1:400	PK-4002	Vector Labs
Rabbit IgG Alexa 488	Immunofluorescence	goat	1:200	A11008	Thermo-Fisher
Rabbit IgG horseradish peroxidase	Immunoblot	goat	1:2000	7074	Cell Signaling

Supplementary Table S1. List of antibodies used in the current study.