

Materials List for:

Quantitative Analysis of Cellular Composition in Advanced Atherosclerotic Lesions of Smooth Muscle Cell Lineage-Tracing Mice

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Materials

Name	Company	Catalog Number	Comments
16% Paraformaldehyde aqueous solution	Electron Microscopy Sciences	RT 15710	Tissue perfusion and fixation
23G butterfly needle	Fisher	BD367342	
25G needle	Fisher	14-821-13D	
A1 Confocal microscope	Nikon		Confocal microscope
ACTA2-FITC antibody (mouse)	Sigma Aldrich	F3777	Primary Antibody
Alexa-647 anti goat	Invitrogen	A-21447	Secondary antibody
Antigen Unmasking solution, Citric acid based	Vector Labs	H-3300	Antigen retrieval solution
Chow Diet	Harlan Teklad	TD.7012	
Coverslip	Fisher	12-544-14	Any 50 x 24 mm cover glass
DAPI (4',6-Diamidino-2-Phenylindole, Dihydrochloride)	Invitrogen	D1306	Nucleus fluorescent counterstaining
Donkey Alexa-488 anti-rabbit	Invitrogen	A-21206	Secondary antibody
Donkey Alexa-555 anti-rat	Abcam	ab150154	Secondary antibody
DPBS 10X without Calcium and Magnesium	Gibco	14200166	PBS for solution dilutions and washes. Dilute to 1x in deionized water
Embedding cassette	Fisher	15-182-701D	
ETDA vacuum tube	Fisher	02-685-2B	
Ethanol 200 proof	Decon	2701	
Foam pad	Fisher	22-222-012	
Gelatin from cold water fish skin	Sigma Aldrich	G7765	
GFP antibody (goat)	abcam	ab6673	Primary antibody
goat IgG control	Vector Labs	I-5000	IgG control
High Fat Diet	Harlan Teklad	TD.88137	
ImageJ	NIH		Computer program https://imagej.nih.gov/ij/
LGALS3 antibody (rat)	Cedarlane	CL8942AP	Primary antibody
LSM700 confocal microscope	Zeiss		Confocal microscope
Microscope Slides, Superfrost Plus	Fisher	12-550-15	
Microtome blades	Fisher	30-538-35	
Mouse IgG control	Vector Labs	I-2000	IgG control

NIS element imaging software	Nikon		Imaging software for z-stack image acquisition
Normal Horse serum	Sigma Aldrich	H1270	
Pap Pen	Fisher	50-550-221	
Peanut oil	Sigma	P2144	
Prolong gold Antifade mountant	Invitrogen	P36930	Mounting medium
Rabbit IgG control	Vector Labs	I-1000	IgG control
Rat IgG control	Vector Labs	I-4000	IgG control
RUNX2 antibody (rabbit)	Abcam	ab192256	Primary Antibody
Syringe	BD	309628	1 ml syringe
Tamoxifen	Sigma	T5648	
Xylene	Fisher	X55K-4	
Zen imaging software	Zeiss		Imaging software for z-stack image acquisition