

Supplementary Table 1.1. Primary antibodies used in immunofluorescence and Fluorescence-Activated Cell Sorting.

Primary Antibodies	Application	Dilution	Host	Company	Reference
eMyHC	IF	1:50	Ms	DSHB	F1.652-s
FUS	IF	1:200	Rb	Invitrogen	PA5-52610
Ki67	IF	1:500	Rb	Abcam	ab15580
Laminin	IF	1:300	Rb	Sigma-Merck	L9393
Laminin AF647	IF	1:100	Rb	Novus Biologicals	NB300-144AF647
MYH1 (MHC all isoforms)	IF	1:50	Ms	DSHB	A4.1025-c
MYHC I	IF	2:3	Ms	DSHB	BA-D5
MyHC IIa	IF	1:3	Ms	DSHB	SC-71
MyHC IIb	IF	1:1	Ms	DSHB	BF-F3
MyoD1	IF	1:100	Ms	Santa Cruz Biotechnology	sc-377460
Pax7	IF	1:50	Ms	Santa Cruz Biotechnology	sc-81648
TDP-43	IF	1:300	Ms	R&D Systems	MAB7778
AF647 Alpha-7-integrin (R2F2)	FACS	1 μ L / 100 μ L (10^6 cells) (4 μ g/ml final)	Rat	Ablab	67-0010-05
PE Rat anti-Mouse CD34 (RAM34, RUO)	FACS	3 μ L / 100 μ L (10^6 cells) (6 μ g/ml final)	Rat	BD Biosciences	551387
PE/Cy7 Rat anti-mouse CD31 (390)	FACS	0.5 μ L / 100 μ L (10^6 cells) (1 μ g/ml final)	Rat	Biolegend	102418
PE/Cy7 Rat anti-mouse CD45 (30-F11)	FACS	0.5 μ L / 100 μ L (10^6 cells) (1 μ g/ml final)	Rat	Biolegend	103114
PE-Cy TM 7 Rat Anti-Mouse Ly-6A/E Scal (D7, RUO)	FACS	0.5 μ L / 100 μ L (10^6 cells) (1 μ g/ml final)	Rat	BD Biosciences	558162

Supplementary Table 1.2. Secondary antibodies used in immunofluorescence.

Secondary Antibodies	Application	Dilution	Host	Company	Reference
F(ab') ₂ -Goat anti-Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor™ 488	IF	1:500	Gt	Invitrogen	A-11017
Goat anti-Mouse IgG1 Cross-Adsorbed Secondary Antibody, Alexa Fluor™ 488	IF	1:500	Gt	Invitrogen	A-21121
IgG1 Cross-Adsorbed Goat anti-Mouse, Alexa Fluor™ 647	IF	1:500	Gt	Invitrogen	A-21240
Cy3 AffiniPure Fab Fragment Goat Anti-Mouse IgG2a, Fcy fragment specific	IF	1:500	Gt	Jackson ImmunoResearch Labs	115-167-186
Alexa Fluor™ 647 AffiniPure Fab Fragment Goat Anti-Mouse IgG2a, Fcy fragment specific	IF	1:500	Gt	Jackson ImmunoResearch Labs	115-607-186
Cy™3 AffiniPure Goat Anti-Mouse IgG, Fcy subclass 2b specific (min X Hu, Bov, Rb Sr Prot)	IF	1:500	Gt	Jackson ImmunoResearch Labs	115-165-207
IgM (Heavy chain) Cross-Adsorbed Goat anti-Mouse, Alexa Fluor™ 488	IF	1:500	Gt	Invitrogen	A-21042
F(ab') ₂ -Goat anti-Rabbit IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor™ 555	IF	1:500	Gt	Invitrogen	A-21430
F(ab') ₂ -Goat anti-Rabbit IgG (H+L) Cross-Adsorbed, Alexa Fluor™ 647	IF	1:500	Gt	Invitrogen	A-21246
DAPI (4',6-Diamidino-2-Phenylindole, Dihydrochloride)	IF	1:1,000	NA	Invitrogen	10184322
*IF, immunofluorescence; FACS, Fluorescence-activated cell sorting; Ms, mouse; Rb, Rabbit; Gt, goat; MyHC or MHC, Myosin Heavy Chain; NA: not applicable, (not an antibody)					