

Table EV2: List of antibodies

Reagent/resource	Dilution	Reference or source	Catalogue number
Rat anti-CD3	1:200	BD Biosciences	Cat #557869
Rat anti-CD31	1:200	Biolegend	Cat #102410
Rabbit Anti-CD39 [EPR20627]	1:300	Abcam	Cat #ab223842
Rat anti- CD45	1:200	Biolegend	Cat #103102
Rat anti-CD90/Thy1	1:400	R&D Systems	Cat # MAB7335
Rat anti-F4/80	1:400	eBioscience	Cat #53-4801-82
Rabbit anti-Fibronectin	1:200	Abcam	Cat #ab23750
Rat anti-Integrin α 6	1:400	Biolegend	Cat #313602
Goat anti-Integrin α v β 6	1:400	R&D Systems	Cat # AF2389
Mouse anti-Integrin α v β 6	1:200	Merck Millipore	Cat # MAB2077Z
Mouse anti-Involucrin	1:250	Sigma-Aldrich	Cat #I9018
Rabbit anti-Ki67	1:300	Abcam	Cat #ab15580
Rabbit anti- α SMA	1:300	Abcam	Cat #ab5694
Mouse anti-Krt10	1:250	Abcam	Cat #ab9025
Mouse anti-Krt14	1:250	Abcam	Cat #ab7800
Rabbit anti-Laminin α 3 *	1:200	Atlas antibodies	Cat #HPA009309
Rabbit anti-Laminin **	1:300	Abcam	Cat #ab11575
Rat Anti-Mouse Ly-6G	1:300	BD Biosciences	Cat #561105
Anti-phospho Smad1/Smad5/Smad8 (Ser463/465)	1:300	Sigma-Aldrich	Cat # AB3848-I
Rabbit anti-Phospho-SMAD2 (Ser465/467) (138D4)	1:300	Cell Signalling Technology	Cat #3108S
Rabbit anti-SMAD2 (D43B4)	1:300	Cell Signalling Technology	Cat # 5339
Rat anti-Sca1	1:300	BD Biosciences	Cat #553333
Rabbit anti-beta Actin	1:5000	Abcam	Cat #ab8227
Rabbit anti-GAPDH	1:5000	Abcam	Cat #ab128915
Rabbit anti-Tenascin C	1:300	Abcam	Cat #ab108930
Rabbit anti-VIM (D21H3)	1:200	Cell Signalling Technology	Cat #5741
Goat anti-Rat IgG (H+L) Alexa Fluor™ 647	1:400	Invitrogen	Cat # A-21247
Donkey anti-Mouse IgG (H+L) Alexa Fluor™ 647	1:400	Invitrogen	Cat #A-31571
Donkey anti-Rat IgG (H+L) Alexa Fluor™ 647	1:400	Invitrogen	Cat #A-78947
Goat anti-Rat IgG (H+L) Alexa Fluor™ 555	1:400	Invitrogen	Cat #A-21434
Goat anti-Rabbit IgG (H+L) Alexa Fluor™ 555	1:400	Invitrogen	Cat #A-21428
Polyclonal Goat Anti-Rabbit Immunoglobulins/HRP	1:1000	Aligent (DAKO)	Cat #P0448
Polyclonal Goat Anti-Rabbit Immunoglobulins/HRP	1:1000	Aligent (DAKO)	Cat #P044701

*: Used for OT staining

**: Used for Mouse skin staining