

**Table S1. Primary antibodies used for immunostaining and special staining procedures.**

Protein	Host	Dilution	Special procedures	Vendor/catalog number
<b>BrdU</b>	Mouse	1:20	Conjugated primary AB	Invitrogen #B35130
<b>Myosin VIIa</b>	Rabbit	1:200	None	Proteus Biosciences #25-6790
<b>p27<sup>Kip1</sup></b>	Mouse	1:400	AUM, SE, 37°C AB incubation, & IgG1 secondary	Fisher #BDB610242
<b>RFP</b>	Mouse	1:200	SE, 37°C AB incubation, & IgG2a secondary	Rockland #200-301-379S
<b>S100a1</b>	Rabbit	1:100	37°C AB incubation	Abcam #AB868
<b>Sox2</b>	Goat	1:400	None	Santa Cruz #sc-17320

AB, antibody; AUM, antigen unmasking solution; SE, signal enhancer.

**Table S2. Secondary antibodies used for immunostaining**

Antibody	Dilution	Vendor/Catalog number
Alexa 488 donkey anti-goat	1:1000	Invitrogen #A11055
Alexa 488 donkey anti-rabbit	1:1000	Invitrogen #A21206
Alexa 546 donkey anti-rabbit	1:1000	Invitrogen #A10040
Alexa 568 goat anti-mouse IgG2a	1:1000	Invitrogen #A21134
Alexa 647 donkey anti-goat	1:1000	Invitrogen #A21447
Alexa 647 goat anti-mouse IgG1	1:1000	Invitrogen #A21240
Alexa 647 donkey anti-rabbit	1:1000	Invitrogen #A31573