

**Supplementary Table 1.** List of antibodies used in study.

Antigen (Abbreviation)	Concentration (µg/ml)	Catalog# (Ref)	Species	Source	Frozen	Formalin	Retrieval Citrate
α-Smooth Muscle Actin (α-SMA)	5	RB-9010-P	Rabbit	NeoMarkers		<input type="checkbox"/>	<input type="checkbox"/>
CD31	5	DIA310	Rat	Dianova	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cleaved Caspase 3	5	96645	Rabbit	Cell Signaling		<input type="checkbox"/>	<input type="checkbox"/>
E-Cadherin (E-Cad)		SC7870	Rabbit	Santa Cruz		<input type="checkbox"/>	<input type="checkbox"/>
Endomucin	5	SC65495	Rat	Santa Cruz	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Meca-32		N/A	Rat	Purified in house	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NG2 chondroitin sulfate (NG2)	5	AB4320	Rabbit	Abcam			
Pimonidazole-FITC mab (Pim)	5		Rabbit	Chemicon	<input type="checkbox"/>		
Phospho-HistoneH3 Ser10 (pH3)	5	06570	Rabbit	Millipore		<input type="checkbox"/>	<input type="checkbox"/>
S100A4	5	AB27957	Rabbit	Abcam		<input type="checkbox"/>	<input type="checkbox"/>
Vimentin (Vim)		2105VIM	Chicken	Phospho Solutions		<input type="checkbox"/>	<input type="checkbox"/>
Zeb1	5		Rabbit			<input type="checkbox"/>	<input type="checkbox"/>