

Supplementary Table 1 Antibodies list and experimental conditions for immunohistochemistry (IHC)

Primary Antibody	Company and cat.#	Dilution and time of incubation (All antibodies were incubated for 45 minutes at room temperature except for some ones with overnight incubation at +4 degree)	Antigen retrieval (time: 30-45 minutes)
NG2	Abcam Cat# 83508	1:1000, overnight	10 minutes proteinase digestion
PDGFRB	Epitomics 1469-1	1:500, overnight	Citrate buffer and pressure cooker
αSMA	Sigma A2547	1:20,000	none
CD31	Dako M0823	1:30	15 minutes proteinase digestion
Phospho-ERK1/2	Cell Signaling 9101	1:25, overnight	Citrate buffer and pressure cooker
Phospho-AKT	Cell Signaling 4060	1:40, overnight	Citrate buffer and pressure cooker
PAX8	Proteintech 10036-1-AP	1:800 or 1:1200	Citrate buffer and pressure cooker
VEGF	Abcam Ab27620	1:2	Citrate buffer and pressure cooker
VEGFR2	Cell Signaling 2479	1:500, overnight	EDTA and pressure cooker
Phospho-SMAD3	Cell Signaling 9520	1:400, overnight	Citrate buffer and pressure cooker

TGFB1	Abcam Ab92486	1:200	Citrate buffer and pressure cooker
TSP-1	Abcam Ab1823	1:25	Citrate buffer and pressure cooker
PDGFB	Santa Cruz Biotechnology sc-127	1:50	Citrate buffer and pressure cooker
TUNEL	Millipore ST100	1:3	Proteinase K digestion
Luciferase	Promega G745A	1:500, overnight	No treatment
Desmin	Sigma D1033	1:5000	Citrate buffer and pressure cooker