

**Table S1. Multiplex staining panel.**

Structure of interest	Antibody	Vectra Opal	Dilution	Incubation time	Company	Ref.	Clone	Clonality	Host
Myometrium and vascular smooth muscle cells	$\alpha$ -SMA	Opal570	1:1500	30 min - RT	Dako	MO851	1A4	Monoclonal	Mouse
Angiogenesis marker	VEGF	Opal520	1:500	30 min – RT	Santa Cruz	Sc-152	A-20	Polyclonal	Rabbit
Blood vessels	CD31	Opal650	1:50	60 min – 37 °C	Dako	MO823	JC70A	Monoclonal	Mouse
Lymph vessels	Podoplanin (D2-40 antibody)	Opal540	1:50	30 min – RT	Bio Rad	MCA254 3	D2-40	Monoclonal	Human
Endometrium	CD10	Opal690	1:50	30 min - RT	monosan Sanbio	MONX1 0354	56C6	Monoclonal	Mouse