

**Supplementary Table S1 List of reagents used.**

Item	Details	Cat. number	Source	Working concentration(s)
Supplies				
Blunt-end needle		B25-100	SAI infusion Tech	
Tygon Tubing	0.02"ID x 0.06"OD	EW-06418-02	Tygon	
Poly-L-lysine		p4707	Sigma	
Collagen Type IV		sc29010	Santa Cruz	(10 µg/cm <sup>2</sup> )
Antibodies				
PGE <sub>2</sub> receptor 2 (EP2)	Rabbit	101750	Cayman Chemicals	1:100
PGE <sub>4</sub> receptor 4 (EP4)	Rabbit	101775	Cayman Chemicals	1:100
PGD <sub>2</sub> receptor 1 (DPI)	Rabbit	101640	Cayman Chemicals	1:100
PGI <sub>2</sub> receptor (IP)	Mouse	sc515139	Santa Cruz	1:100
Ulex europaeus agglutinin I (ULEX)- Rhodamine	N/A	RL-1062	VECTOR	1:100
hCyclooxygenase-2- AF647	Mouse	sc-376861	Santa Cruz	1:50
ActinGreen™ 488 ReadyProbes™		R37110	ThermoFisher	1 drop/mL
CD31		M0823	DAKO	1:50
Vimentin		ab45939	Abcam	1:400
Goat anti rabbit-AF647	Goat	AnaSpec, Inc	AS-61056-05- H647	1:200
Ready probes GAM-AF594	Goat	R37115	ThermoFisher	1 drop/mL
Biotinylated IgG	Goat	HK335	Biogenex	1 drop/mL
Prostanoid agonists				
Iloprost (Ilo)		18215	Cayman Chemicals	25 µM, 2.5 µM, 1 µM, 500 nM, 250 nM, 100 nM,
Prostaglandin E2 (PGE2)		p0409	Sigma	1 µM, 500 nM 100 nM, 10 nM
Prostaglandin D2 (PGD2)		p5172	Sigma	10 µM, 1 µM
8-Br-cyclic AMP		B7880	Sigma	0.5 mM
Prostanoid antagonists				
Indomethacin	COX-2 inhibitor	17378	Sigma	100 µM
BAY u3405	DPI inhibitor	10156	Cayman Chemicals	n/a
CAY10441	IP inhibitor	10005186	Cayman Chemicals	10 µM
AH6809	EP2 inhibitor	A1221	Sigma	20 µM
AH23848	EP4 inhibitor	A8227	Sigma	20 µM
ELISAs				
Prolactin		DY682	R&D	384 well format
Insulin like growth factor binding protein 1 (IGFBP-1)		DY871-05	R&D	384 well format
PGE <sub>2</sub>		500141	Cayman Chemicals	96 well format
PGI <sub>2</sub> (Prostacyclin)		ADI-900-025	Enzo	96 well format