

Table 1. Antibodies and dilution

Antibody	Supplier	Reference	Species	Dilution
E-cadherin	BD Biosciences	610182	Mouse IgG2a	1/500
Endomucin	Santa Cruz	sc-65495	Rat	1/1000
Ezrin	Thermo Scientific	MS-661-P1	Mouse IgG1	1/400
Laminin	Sigma	L9393	Rabbit	1/100

Table 2. Model parameters values

Parameter	Description	Value	Dimensions
K	Deformation energy parameter	55.0	[Force.Length ⁻¹]
$\Lambda_{\text{epi-epi}}$	Epithelial cell-cell adhesion energy parameter	5.0	[Force]
$\Lambda_{\text{endo-endo}}$	Endothelial cell-cell adhesion energy parameter	1.0	[Force]
$\Lambda_{\text{lumen-lumen}}$	Lumen cell-cell adhesion energy parameter	5.0	[Force]
$\Lambda_{\text{epi-endo}}$	Epi-endo cell adhesion parameter	5.0	[Force]
$\Lambda_{\text{epi-lumen}}$	Epi-lumen cell adhesion parameter	6.0	[Force]
Γ	Contractility parameter	1.0	[Force.Length ⁻¹]
ρ_{endo}	Polarisation impact rate of endothelial cells	0.12	[Time ⁻¹]
ρ_{bnd}	Polarisation impact rate of the periphery	0.12	[Time ⁻¹]
ρ_{lumen}	Polarisation impact rate of lumen cells	-0.015	[Time ⁻¹]
ε	Polarisation impact rate of epithelial cells	-0.04	[Time ⁻¹]