**Table S2 Primary antibodies for western blot**

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| **Name** | **No.** | **Manufacturer** |
| GAPDH | ab9485 | Abcam |
| MMP-2 | ab92536 | Abcam |
| MMP-9 | ab76003 | Abcam |
| MMP-13 | ab39012 | Abcam |
| TMOD1 | ab230276 | Abcam |
| E-cadherin | ab40772 | Abcam |
| N-cadherin | ab76011 | Abcam |
| Claudin-1 | ab211737 | Abcam |
| β-Actin | ab8226 | Abcam |