

**Supplementary Table 2: Antibodies and conditions used for western blot analysis**

| Target protein                      | Host   | Dilution | Catalogue number | Manufacturer   |
|-------------------------------------|--------|----------|------------------|----------------|
| <b>Primary antibodies</b>           |        |          |                  |                |
| $\beta$ -catenin                    | Rabbit | 1/1000   | 8480             | Cell signaling |
| E-cadherin                          | Mouse  | 1/1000   | 14472            | Cell signaling |
| Cx43                                | Rabbit | 1/500    | C6219            | Sigma Aldrich  |
| K14                                 | Mouse  | 1/200    | ms-115-p1        | Thermofisher   |
| K18                                 | Rabbit | 1/1000   | ab52948          | Abcam          |
| HER2                                | Rabbit | 1/1000   | 2165             | Cell signaling |
| PCNA                                | Mouse  | 1/2000   | 2586S            | Cell signaling |
| PR A/B                              | Rabbit | 1/500    | Ab16661          | Abcam          |
| ER $\alpha$                         | Rabbit | 1/500    | 75635            | Abcam          |
| ER $\beta$                          | Rabbit | 1/1000   | PA 1-310B        | Thermofisher   |
| <b>Secondary antibodies</b>         |        |          |                  |                |
| anti-mouse IgG HRP-linked antibody  | Horse  | 1/10 000 | 7076s            | Cell signaling |
| Anti-rabbit IgG HRP-linked antibody | Goat   | 1/10 000 | 7074s            | Cell signaling |