**Supplementary Table S1** - Age of women, menstrual phase and reason of hysterectomy in those who donated full thickness endometrial samples.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Age | Menstrual Phase | Pathology |
| 1 | 41 | Proliferative | adenomyosis + leiomyomas |
| 2 | 45 | Proliferative | adenomyosis + leiomyomas |
| 3 | 40 | Proliferative | leiomyomas |
| 4 | 48 | Proliferative | adenomyosis + leiomyomas |
| 5 | 49 | Proliferative | adenomyosis + leiomyomas |
| 6 | 41 | Proliferative | leiomyomas |
| 7 | 49 | Proliferative | Leiomyomas |
| 8 | 48 | Proliferative |  leiomyomas |
| 9 | 45 | Proliferative |  leiomyomas |
| 10 | 42 | Secretory | leiomyomas |
| 11 | 46 | Secretory | leiomyomas |
| 12 | **52** | Secretory | leiomyomas |
| 13 | 49 | Secretory | leiomyomas |
| 14 | 45 | Secretory | leiomyomas |
| 15 | 50 | Secretory | adenomyosis + leiomyomas |
| 16 | 45 | Secretory |  leiomyomas |
| 17 | 51 | Secretory |  leiomyomas |
| 18 | 43 | Secretory |  leiomyomas |
| 19 | 45 | Secretory |  leiomyomas |
| 20 | 43 | Secretory | adenomyosis + leiomyomas |
| 21 | 47 | Secretory |  leiomyomas |
| 22 | 48 | Secretory | adenomyosis |

**Supplementary Table S2** – Age of women and infertility cause in those who donated menstrual samples.

|  |  |  |
| --- | --- | --- |
|  | Age |  |
| 1 | 39 | Menstrual |
| 2 | 40 | Menstrual |
| 3 | 32 | Menstrual |
| 4 | 32 | Menstrual |
| 5 | 33 | Menstrual |
| 6 | 36 | Menstrual |
| 7 | 34 | Menstrual |
| 8 | 33 | Menstrual |
| 9 | 34 | Menstrual |
| 10 | 35 | Menstrual |
| 11 | 33 | Menstrual |
| 12 | 37 | Menstrual |
| 13 | 36 | Menstrual |
| 14 | 35 | Menstrual |
| 15 | 35 | Menstrual |
| 16 | 38 | Menstrual |
| 17 | 49 | Menstrual |
| 18 | 32 | Menstrual |
| 19 | 40 | Menstrual |
| 20 | 53 | Menstrual |
| 21 | 40 | Menstrual |
| 22 | 36 | Menstrual |
| 23 | 32 | Menstrual |

**Supplementary Table S3 - List of primary and secondary antibodies used for western blotting**

|  |  |  |  |
| --- | --- | --- | --- |
| **Primary Antibodies (WB)** | **Isotype** | **Dilution** | **Source** |
| **Active β-catenin:** mouse monoclonal active beta catenin; clone 8E7. | Mouse IgG1 | 1:500 | EMD Millipore |
| **LGR5:** rabbit polyclonal LGR5. | Rabbit IgG | 1:500 | Abcam |
| **β-catenin**: mouse monoclonal total beta catenin. | Mouse IgG | 1:1000 | BD Bioscience |
| **β-actin**: mouse monoclonal beta actin; clone AC-15. | Mouse IgG1 | 1:10000 | Sigma-Aldrich |

|  |  |  |
| --- | --- | --- |
| **Secondary Antibodies (WB)** | **Dilution** | **Source** |
| Mouse horseradish peroxidase | 1:10000 | GE Healthcare |
| Rabbit horseradish peroxidase | 1:10000 | GE Healthcare |

**Supplementary Table S4- List of primary antibodies used for immunofluorescent staining.**

|  |  |  |
| --- | --- | --- |
| **Primary Antibodies (IF)** | **Dilution** | **Source** |
| **LGR5:** rabbit polyclonal to LGR5. | 1:100 | Abcam |
| **RSPO1:** rabbit polyclonal to Rspondin-1 | 1:200 | Abcam |