

**sFig1. Identification of mesenchymal cells.** Immunofluorescent analysis of Vimentin(Green) and E-cadherin (Red) in Y19 and EEC respectively. DAPI staining was included to visualize the cell nucleus (Blue), Scale bar=100 μm.

**sTable 1. The information for control group (Uterine Leiomyoma)**

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| **No.** | **Age** | **Pathological diagnosis** |
| **1** | 46 | Uterine Leiomyoma； |
| **2** | 39 | Uterine Leiomyoma； |
| **3** | 47 | Uterine Leiomyoma； |
| **4** | 48 | Uterine Leiomyoma； |
| **5** | 47 | Uterine Leiomyoma； |
| **6** | 39 | Uterine Leiomyoma； |
| **7** | 41 | Uterine Leiomyoma； |
| **8** | 41 | Uterine Leiomyoma； |
| **9** | 48 | Uterine Leiomyoma； |
| **10** | 48 | Uterine Leiomyoma； |
| **11** | 43 | Uterine Leiomyoma； |
| **12** | 48 | Uterine Leiomyoma； |
| **13** | 47 | Uterine Leiomyoma； |
| **14** | 49 | Uterine Leiomyoma； |
| **15** | 47 | Uterine Leiomyoma； |
| **16** | 43 | Uterine Leiomyoma； |
| **17** | 45 | Uterine Leiomyoma； |
|  |  |  |

**sTable 2. The information for adenomyosis patient group**

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| **No.** | **Age** | **Pathological diagnosis** |
| **1** | 43 | Adenomyoma |
| **2** | 49 | Adenomyoma |
| **3** | 49 | Adenomyosis |
| **4** | 41 | Adenomyosis |
| **5** | 42 | Adenomyosis |
| **6** | 45 | Adenomyosis |
| **7** | 50 | Adenomyoma |
| **8** | 43 | Adenomyoma |
| **9** | 41 | Adenomyosis |
| **10** | 47 | Adenomyosis |
| **11** | 51 | Adenomyosis |
| **12** | 48 | Adenomyosis |
| **13** | 39 | Adenomyosis |
| **14** | 43 | Adenomyoma |
| **15** | 41 | Adenomyosis |
| **16** | 44 | Adenomyosis |