**Table S1:** Antibodies and protocols used for this study.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Antibody** | **Clone** | **Reference** | **Host species** | **pretreatment** | **Incubation time (in min)** |
| MLH1 | M1 (Roche®) | 790-4535 | Mouse | CC1 (Roche®) | 16 |
| MSH2 | G219-1129 (Roche®) | 760-4265 | Mouse | CC1 (Roche®) | 16 |
| MSH6 | 44 (Roche®) | 790-4455 | Mouse | CC1 (Roche®) | 20 |
| PMS2 | EPR3947 (Roche®) | 760-4531 | Rabbit | CC1 (Roche®) | 32 |