**Table 1. The patient characteristics**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Age, years** | **Gender** | **Diagnosis** |
| 1 | 32 | F | Classic Hodgkin’s lymphoma, NS type I |
| 2 | 42 | M | Classic Hodgkin’s lymphoma, NS type II |
| 3 | 62 | F | Classic Hodgkin’s lymphoma, NS type II |
| 4 | 40 | M | Classic Hodgkin’s lymphoma, NS type II |
| 5 | 37 | F | Classic Hodgkin’s lymphoma, NS type II |
| 6 | 46 | M | Classic Hodgkin’s lymphoma, NS type II |
| 7 | 33 | M | Classic Hodgkin’s lymphoma, NS type II |
| 8 | 29 | F | Classic Hodgkin’s lymphoma, NS type II |
| 9 | 58 | M | Follicular lymphoma Grade 1–2 (follicular type of growth) |
| 10 | 31 | F | Mantel cell lymphoma stage IIIA |
| 11 | 18 | M | Non-organic retroperitoneal sarcoma T2N1M1 |

F, female; M, male; NS, nodular sclerosis

**Table 2. The panel of direct fluorochrome conjugates of monoclonal antibodies to identify Reed-Berezovsky-Sternberg cells**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Test/fluorochrome** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** |
| **FITC** | **PE** | **Pe-cy5** | **PE-cy7** | **AF-700** | **APC-cy7** | **Bv 605** | **Bv 711** | **Bv 786** |
| Monoclonal antibodies | CD40 | CD95 | CD45 | CD15 | CD64 | CD19 | CD30 | CD20 | CD3 |

**Table 3. Numbers and immunophenotypes of Reed-Berezovsky-Sternberg cells in the tested samples**

|  |  |  |
| --- | --- | --- |
| **No.** | **Cell numbers** | **Cell immunophenotypes** |
| 1 | 70 | CD45-CD30++CD64-CD19-CD95+CD40+CD15+ |
| 2 | 123 | CD45-CD30++CD64-CD19-CD95+CD40+CD15lowСD20+/- |
| 3 | 65 | CD45-CD30++CD64-CD19-CD95+CD40+CD15+ |
| 4 | 86 | CD45-CD30++CD64-CD19-CD95+CD40+CD15lowСD20+/- |
| 5 | 97 | CD45-CD30++CD64-CD19-CD95+CD40+CD15lowСD20+/- |
| 6 | 106 | CD45-CD30++CD64-CD19-CD95+CD40+CD15lowСD20+/- |
| 7 | 93 | CD45-CD30++CD64-CD19-CD95+CD40+CD15+ |
| 8 | 89 | CD45-CD30++CD64-CD19-CD95+CD40+CD15+ |
| 9 | 0 | Not found |
| 10 | 0 | Not found |
| 11 | 0 | Not found |