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|                       | Technical Data Sheet                                                                                                                                                                                                                                                                          |                  |
| Product               | <b>Anti-Hu CD38 PE-Cy™5</b>                                                                                                                                                                                                                                                                   |                  |
| Cat. Number/Size      | <b>T8-366-T025</b>                                                                                                                                                                                                                                                                            | <b>25 tests</b>  |
|                       | <b>T8-366-T100</b>                                                                                                                                                                                                                                                                            | <b>100 tests</b> |
|                       | <b>For Research Use Only.</b>                                                                                                                                                                                                                                                                 |                  |
|                       | <b>Not for use in diagnostic or therapeutic procedures.</b>                                                                                                                                                                                                                                   |                  |
| Antigen               | CD38                                                                                                                                                                                                                                                                                          |                  |
| Clone                 | HIT2                                                                                                                                                                                                                                                                                          |                  |
| Format                | PE-Cy™5                                                                                                                                                                                                                                                                                       |                  |
| Reactivity            | Human                                                                                                                                                                                                                                                                                         |                  |
| Application           | FC (QC tested)                                                                                                                                                                                                                                                                                |                  |
| Application details   | Flow cytometry: The reagent is designed for analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.                                                                    |                  |
| Excitation laser      | blue (488 nm)                                                                                                                                                                                                                                                                                 |                  |
| Isotype               | Mouse IgG1                                                                                                                                                                                                                                                                                    |                  |
| Specificity           | The mouse monoclonal antibody HIT2 reacts with an extracellular epitope of CD38, a 45 kDa type II transmembrane glycoprotein strongly expressed mainly on plasma cells and activated T and B lymphocytes; it is an antigenic marker of lymphoid cells. Its binding is blocked by daratumumab. |                  |
| Other names           | ADPRC1, cADPr hydrolase 1, T10, NAD(+) nucleosidase, ADP-ribosyl cyclase 1                                                                                                                                                                                                                    |                  |
| Workshop              | HLDA III: WS Code T 155                                                                                                                                                                                                                                                                       |                  |
| Immunogen             | Human thymocytes in foetus                                                                                                                                                                                                                                                                    |                  |
| Entrez Gene ID        | 952                                                                                                                                                                                                                                                                                           |                  |
| Gene name             | CD38                                                                                                                                                                                                                                                                                          |                  |
| NCBI Full Gene Name   | CD38 molecule                                                                                                                                                                                                                                                                                 |                  |
| UniProt ID            | P28907                                                                                                                                                                                                                                                                                        |                  |
| Preparation           | Purified antibody is conjugated with activated tandem dye of R-phycoerythrin-cyanine 5 (PE-Cy™5) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.                                                                       |                  |
| Formulation           | Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide                                                                                                                                                                                                                       |                  |
| Storage and handling  | Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.                                                                                                                                                                                                                      |                  |
| Images and References | www.exbio.cz                                                                                                                                                                                                                                                                                  |                  |

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