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|                       | Technical Data Sheet                                                                                                                                                                                                                                                                                            |                  |
| Product               | <b>Anti-Hu CD45 PE-Cy™5</b>                                                                                                                                                                                                                                                                                     |                  |
| Cat. Number/Size      | <b>T8-160-T100</b>                                                                                                                                                                                                                                                                                              | <b>100 tests</b> |
|                       | <b>For Research Use Only.</b>                                                                                                                                                                                                                                                                                   |                  |
|                       | <b>Not for use in diagnostic or therapeutic procedures.</b>                                                                                                                                                                                                                                                     |                  |
| Antigen               | CD45                                                                                                                                                                                                                                                                                                            |                  |
| Clone                 | 2D1                                                                                                                                                                                                                                                                                                             |                  |
| 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 kappa                                                                                                                                                                                                                                                                                                |                  |
| Specificity           | The mouse monoclonal antibody 2D1 reacts with an extracellular epitope of all alternative forms of human CD45 antigen (Leukocyte Common Antigen), a 180-220 kDa single chain type I transmembrane protein expressed at high level on all cells of hematopoietic origin, except from erythrocytes and platelets. |                  |
| Other names           | LCA, T200, LY5, B220, GP180, TPC                                                                                                                                                                                                                                                                                |                  |
| Workshop              | HLDA III                                                                                                                                                                                                                                                                                                        |                  |
| Immunogen             | Human peripheral blood mononuclear cells                                                                                                                                                                                                                                                                        |                  |
| Entrez Gene ID        | 5788                                                                                                                                                                                                                                                                                                            |                  |
| Gene name             | PTPRC                                                                                                                                                                                                                                                                                                           |                  |
| NCBI Full Gene Name   | protein tyrosine phosphatase receptor type C                                                                                                                                                                                                                                                                    |                  |
| UniProt ID            | P08575                                                                                                                                                                                                                                                                                                          |                  |
| 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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