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|-----------------------|---|------------------|
|                       | Technical Data Sheet  |                  |
| Product               | <b>Anti-Hu CD3 PE</b>   |                  |
| Cat. Number/Size      | <b>1P-631-T100</b>  | <b>100 tests</b> |
|                       | <b>For Research Use Only.</b>   |                  |
|                       | <b>Not for use in diagnostic or therapeutic procedures.</b>   |                  |
| Antigen               | CD3   |                  |
| Clone                 | OKT3  |                  |
| Format                | PE  |                  |
| Reactivity            | Human   |                  |
| Application           | FC (QC tested)  |                  |
| Application details   | Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.   |                  |
| Excitation laser      | blue (488 nm)   |                  |
| Isotype               | Mouse IgG2a   |                  |
| Specificity           | The mouse monoclonal antibody OKT3 recognizes an extracellular epitope on CD3 antigen of the TCR/CD3 complex on mature human T cells. This antibody, also known as Orthoclone OKT3 or Muromonab-CD3, has been extensively used as a drug for therapy of acute, glucocorticoid resistant rejection of allogenic renal, heart and liver transplants. It has also been investigated for use in treating T-cell acute lymphoblastic leukemia. |                  |
| Other names           | CD3E, T3E, TCRE   |                  |
| Workshop              | HLDA VI: WS Code T6T-R3   |                  |
| Immunogen             | human T cells   |                  |
| Entrez Gene ID        | 916   |                  |
| Gene name             | CD3E  |                  |
| NCBI Full Gene Name   | CD3 antigen, epsilon polypeptide  |                  |
| UniProt ID            | P07766  |                  |
| Preparation           | Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. 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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