

anti-human CD3 PE-conjugated

The antibody HIT3b recognizes the 17-19 kD ϵ -chain of CD3 within the CD3 antigen/T cell antigen receptor (TCR) complex. The clone HIT3a has a strong mitogenic effect at ng level on T lymphocyte proliferation in soluble or immobilized conditions and has an immunosuppressive effect at high dose. Conversely, the clone HIT3b has a strong mitogenic effect on T lymphocytes proliferation only under immobilized condition.

CD3 complex is crucial in transducing antigen-recognition signals into the cytoplasm of T cells and in regulating the cell surface expression of the TCR complex. T cell activation through the antigen receptor (TCR) involves the cytoplasmic tails of the CD3 subunits CD3 gamma, CD3 delta, CD3 epsilon and CD3 zeta. These CD3 subunits are structurally related members of the immunoglobulins super family encoded by closely linked genes on human chromosome 11. The CD3 components have long cytoplasmic tails that associate with cytoplasmic signal transduction molecules. This association is mediated at least in part by a double tyrosine-based motif present in a single copy in the CD3 subunits. CD3 may play a role in TCR-induced growth arrest, cell survival and proliferation. The CD3 antigen is present on 68-82% of normal peripheral blood lymphocytes, 65-85% of thymocytes and Purkinje cells in the cerebellum. It is never expressed on B or NK cells. Decreased percentages of T lymphocytes may be observed in some autoimmune diseases.

| | |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Clone: | HIT3b |
| Isotype: | Mouse IgG1 |
| Physical state: | purified antibody conjugated with R-Phycoerythrin (R-PE) |
| Form: | Liquid for direct use |
| Buffer: | PBS containing 1 % BSA and 0.09 % sodium azide (pH 7.2) |
| Storage: | Store at 4 °C. Do not freeze. Avoid prolonged exposure to light. |
| Application: | Flow Cytometry |
| Reference: | Shen DC. et al. 1993. ACTA Academia Medicinae Sinicae Schlossman S. et al., eds. 1995. Leucocyte Typing V Tadamitsu K. et al., eds. 1997. Leucocyte Typing VI |
| Quantity: | 1.0 ml |
| Order N°: | H12503P |

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32).

This material is offered for **research only**. Not for use in human. For in vitro use only. EuroBioSciences will not be held responsible for patent infringement or other violations that may occur with the use of our products.