

Mouse Anti Human CD3 PE-Cy5

PRODUCT INFORMATION

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| CLONE: | HIT3a |
| ISOTYPE: | Mouse IgG2a, κ |
| WS.No.: | V5T CD03.05 |
| CATALOG#: | A6066/A6076 |
| CONTENTS: | PE-Cy5 conjugated antibody buffered in 10mM PBS (pH 7.0) with 0.05% NaN ₃ and 1% BSA. |

DESCRIPTION

CD3 McAb recognizes the 17-19 KD ϵ -chain and reacts with this ϵ -chain of the CD3 antigen/T cell antigen receptor(TCR) complex. CD3 antigen appears in the cytoplasm of the cell during the early stage of T cell development and is expressed on the cell membrane at the late stage. CD3 antigen is present on 60%-80% of normal peripheral blood lymphocytes and 60%-70% of thymocytes and plays an important role in signal transduction after antigen recognition by TCR. HIT3a McAb at ng level has a strong mitogenic effect on T lymphocyte proliferation (in soluble or immobilized conditions) and has a immunosuppressive effect at high dose. In addition, NK cells express CD3 chain in the cytoplasm, and CD3 McAb provide a tool for analyzing the development relationship and the common precursor of both T cells and NK cells.

PREPARATION

The monoclonal antibody is purified from ascites by protein G affinity chromatography and is conjugated with PE-Cy5 under optimum conditions.

USAGE

The conjugated reagent is tested for flow cytometric analysis using 20 μ l/10⁶ cells.

STORAGE

Store at 4°C. Conjugated forms should not be frozen and avoid prolonged exposure to light.

REFERENCES

1. Shen DC., Yang XF., Yung CY., et al., 1993. A high affinity CD3 monoclonal antibody HIT3a I. production and identification. ACTA Academiae Medicinae Sinicae. 15(3):157
2. Schlossman S., L. Bloumsell, W. Gilks, et al., eds. 1995. Leucocyte Typing V: White Cell Differentiation Antigens. P: 245, 262 Oxford University Press, New York.
3. Tadimitsu K, K.Hitoshi, A.E.G.Kr.van dem Borne, et al., eds. 1997. Leucocyte Typing VI: White Cell Differentiation Antigens. P: 44—48 Garland Publishing, Inc., New York.

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