

Mouse Anti Human CD3 PE

PRODUCT INFORMATION

CLONE: HIT3a

ISOTYPE: Mouse IgG2a, κ **WS.No.:** V 5T CD03.05 **CATALOG#:** A6063/A6073

CONTENTS: RPE - conjugated antibody buffered in 10mM PBS (pH 7.0) with 0.05%

NaN₃ and 1% BSA.

DESCRIPTION

CD3 McAb recognizes the 17-19 KDε-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 RPE under optimum conditions.

USAGE

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

STORAGE

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

REFERENCES

- Shen DC., Yang XF., Yung CY., et al., 1993. A high affinity CD3 monoclonal antibody HIT3a I. production and indentification. 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. Tadamitsu 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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