

Mouse Anti Human CD3 Purified

PRODUCT INFORMATION

CLONE: HIT3b
ISOTYPE: Mouse IgG1
CATALOG#: A7021/A7021-bulk
CONTENTS: Purified antibody buffered in 10mM PBS (pH 7.0) with 0.1% NaN₃.

DESCRIPTION

CD3 McAb recognizes the 17-19 KDe-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. HIT3b McAb has a strong mitogenic effect on T lymphocytes proliferation only under immobilized condition. 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.

USAGE

The purified reagent is effective for indirect immunofluorescence staining of human cells for flow cytometric analysis and is tested for immunohistochemical staining of acetone-fixed frozen sections.

STORAGE

Store at 4°C. Long term storage at -20°C. Avoid freeze and thaw cycles.

REFERENCES

1. 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. 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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