CD3 (HIT3a) Antibody

Subcategory: Mouse Monoclonal Antibody, FITC-conjugated Antibody
Cat. No.: 250990
Unit: 2 ml

Description:
The CD3 (HIT3a) antibody recognizes the 17-19 kD ?-chain of CD3 within the CD3 antigen/T cell antigen receptor (TCR) complex. The CD3 antigen is expressed in the cell cytoplasm during the early stage of T cell development and is expressed on the cell membrane at the late stage. CD3 antigen is displayed 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. 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. NK cells also express the CD3 antigen in the cytoplasm, making the CD3 (HIT3a) antibody a helpful tool for analyzing the development relationship and the common precursor of both T cells and NK cells.

Isotype: mouse IgG2a
Applications: FC
Species Reactivity: H
Format: Each vial contains 2 ml IgG (100 tests) in PBS pH7.4, 0.1% BSA with 0.09% sodium azide. Antibody was purified by Protein-G affinity chromatography.
Alternate Names: T-cell surface glycoprotein CD3; T-cell surface antigen T3/Leu-4; CD3; T3
Accession No.: P07766

Application Notes: FC with whole blood: 100 ?l blood + 20 ?l antibody; FC with cells: 10E6 cells + 20 ?l antibody. FC: 1:200-1:1,000

Storage: Store at 4°C. Product is guaranteed 6 months from the date of shipment.

Product Citations: Shen DC. et al. 1993. ACTA Academia Medicinae Sinicae. 15(3):157; Schlossman S. et al., eds. 1995. Leucocyte Typing V: White Cell Differentiation Antigens. P246, Oxford University Press, New York.; Tadamitsu K. et al., eds. 1997. Leucocyte Typing VI: White Cell Differentiation Antigens. P49-52, 113-114 Garland Publishing, Inc., New York.

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