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- Mindermengenzuschlag
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Purified Mouse Anti-Human CD3 Monoclonal Antibody

CLX03AP

Lot:

Size: 0.1 mg

Clone: MEM-57

Isotype: Mouse IgG2a

Specificity: The antibody MEM-57 reacts with epsilon-gamma and epsilon-delta dimers of human CD3 complex, a part of a bigger multi-subunit complex of the T cell receptor for antigen (CD3/TCR) expressed on peripheral blood T lymphocytes and mature thymocytes. It reacts more strongly with blood gamma-delta T lymphocytes than with alpha-beta T lymphocytes.
HLDA IV.; WS Code T 96

Immunogen: Human thymocytes and T lymphocytes.

Species Reactivity: Human

Application: *Flow Cytometry*
Recommended dilution: 2 - 5 µg/ml
Positive control: Peripheral Blood Lymphocytes
JURKAT human leukemia T cell line

Immunoprecipitation

The antibody MEM-57 immunoprecipitates from a detergent lysate of surface-radioiodinated T cells a strong zone of about 22 kDa and a weak 28-kDa zone, which is typical pattern yielded by a reference antibody Leu-4 (SK7).

Functional Application

The antibody MEM-57 has a mitogenic effect on peripheral T lymphocytes; it reacts strongly with gamma/delta T lymphocytes.

Continued Overleaf...

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Purity: > 95% (by SDS-PAGE)

Purification: Purified from ascites by protein-A affinity chromatography.

Concentration: 1 mg/ml

Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4

Storage / Stability: Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

Background: 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.

References:

- Bazil V. et al. 1987, In Leucocyte Typing III. (eds. McMichael M.J. et al.), Oxford University Press, Oxford, p.611.
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- Horejsi V. et al.: Monoclonal antibodies against human leucocyte antigens. II. Antibodies against CD45 (T200), CD3 (T3), CD43, CD10 (CALLA), transferrin receptor (T9), a novel broadly expressed 18-kDa antigen (MEM-43) and a novel antigen of restricted expression (MEM-74). Folia Biol. (Praha) 34, 23 (1988).
- Hilgert I. et al.: Therapeutic in vivo use of the A1-CD3 monoclonal antibody. Transplantation 55, 435 (1993).

Laboratory Reagent For Research Use Only