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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

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Biotin Mouse anti-Human CD3 Monoclonal Antibody

CLX03B

Lot:

Size: 0.1 mg

Clone: MEM-57

Isotype: Mouse IgG2a

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

Immunogen: Human thymocytes and T lymphocytes.

Species Reactivity: Human

Preparation: The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.

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.

Usage: Biotinylated antibody is designed for indirect immunofluorescence analysis by Flow Cytometry.
Suggested working dilution is 1:300. Indicated dilution is recommended starting point for use of this product. Working concentrations should be determined by the investigator.

Continued Overleaf...

For more information or to place an order please contact...

CEDARLANE®
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toll free: 1-800-268-5058
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5516 - 8th Line, R.R.#2, Hornby, Ontario, CANADA L0P 1E0

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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 immunoglobulin 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:

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- *Transy C. et al. 1989, In Leucocyte Typing IV. (eds. Knapp W. et al.), Oxford University Press, Oxford, p. 293.
- *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).

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