

anti-human CD3 Biotin-conjugated**Cat-No.: H12125B** **0.1 mg****Clone:** MEM-57 (mouse)

Specificity: The antibody reacts with epsilon and delta chain of CD3 complex. T cell activation through the antigen receptor (TCR) involves the cytoplasmic tails of the CD3 subunits CD3gamma, CD3 delta, CD3 epsilon and CD3zeta. 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. Gene location: human chromosome 11q23

Isotype subclass: Mouse IgG2a**Form:**

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

Expiration date: The reagent is stable until the expiry date stated on the vial label.**Physical state:** Liquid**Buffer/Additives/Preservative:** PBS containing 0.09 % sodium azide (pH 7.4).**Storage conditions:** Store at 4 °C. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.**Application:**

Flow Cytometry
Immunoprecipitation
Functional Application - the antibody activates T-cells in vitro.

References: Leucocyte Typing III. McMichael A. J. et al (Eds.), Oxford University Press (1987)

Horejsi V. et al., Folia Biol. (Praha) 34, 23 (1988)

Hilgert I. et al., Transplantation 55, 435 (1993)

Warning:

Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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