

## anti-human CD3 no azide

monoclonal antibody MEM-57 to human CD3

Cat-No: **21270030**

100 µg in 100 µl

**Clone:** MEM-57

**Specificity:** The antibody MEM-57 reacts with gamma-epsilon and delta-epsilon dimers of human CD3 complex, a part of a bigger multisubunit T cell receptor complex (CD3/TCR) expressed on peripheral blood T lymphocytes and mature thymocytes.

**HLDA IV.; WS Code T 96**

**Isotype subclass:** Mouse IgG2a

**Form:** Purified by protein-A affinity chromatography.

**Purity:** > 98% (by SDS-PAGE)

**Physical state:** Liquid

**Buffer/Additives/Preservative:** sterile PBS (pH 7.2)

**Expiration date:** The reagent is stable until the expiry date stated on the vial label.

**Storage conditions:** Aliquot and store at -20°C. Avoid freeze/thaw cycles.  
Should be handled under aseptic conditions.

**Application:** functional application

### References:

\*Huang Y, Wange RL: J Biol Chem. 2004 Jul 9;279(28):28827-30.

\*Kuhns MS, Davis MM, Garcia KC: Immunity. 2006 Feb;24(2):133-9.

**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.

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