

Product datasheet for SM3017PP

OriGene Technologies, Inc.

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CD3E Mouse Monoclonal Antibody [Clone ID: MEM-57]

Product data:

Product Type: Primary Antibodies

Clone Name: MEM-57

Applications: FC

Recommended Dilution: Flow cytometry: Human blood cells using 10 μl reagent / 100 μl of whole blood or 16 cells

in a suspension.

The content of a vial (1 ml) is sufficient for 100 tests.

Reactivity: Human
Host: Mouse
Isotype: IgG2a

Clonality: Monoclonal

Immunogen: Human thymocytes and T lymphocytes

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.

Formulation: Phosphate buffered saline (PBS)

Label: PerCP

State: Liquid purified lg fraction Preservative: 15 mM sodium azide

Label: Conjugated with Peridinin-chlorophyll-protein complex (PerCP) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for

direct use.

Conjugation: PerCP

Storage: Store undiluted at 2-8°C. DO NOT FREEZE! This products is photosensitive and should be

protected from light.

Stability: Shelf life: one year from despatch.

Gene Name: CD3e molecule

Database Link: Entrez Gene 916 Human

P07766





CD3E Mouse Monoclonal Antibody [Clone ID: MEM-57] - SM3017PP

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.

Synonyms:

T3/Leu-4