

Product datasheet for SM3017RD5

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

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

Product data:

Product Type: Primary Antibodies

Clone Name: MEM-57

FC **Applications:**

Flow cytometry: Human blood cells using 4 µl reagent / 100 µl of whole blood or 10 cells in Recommended Dilution:

a suspension.

The content of a vial (0.4 ml) is sufficient for 100 tests.

Reactivity: Human Host: Mouse Isotype: lgG2a

Monoclonal Clonality:

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: PE-DL594

State: Liquid purified Ig fraction

Preservative:

15 mM sodium azide

Label: Conjugated with tandem dye PE-DyLight[™] 594 (PE-DL594) under optimum conditions.

The conjugate is purified by size-exclusion chromatography and adjusted for direct use.

Conjugation: PE-DL594

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

protected from light.

Stability: Shelf life: one year from despatch.

Gene Name: CD3e molecule

Database Link: Entrez Gene 916 Human

P07766





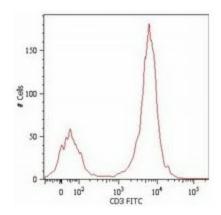
Background:

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

Note: DyLight[™] is a trademark of Thermo Fisher Scientific Inc. and its subsidiaries.

Product images:



Surface staining of human peripheral blood cells with anti-human CD3 (MEM-57) FITC. Cells in the lymphocyte gate were used for analysis.