

Product datasheet for SM003F

OriGene Technologies, Inc.

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Cd3e Rat Monoclonal Antibody [Clone ID: KT3]

Product data:

Product Type: Primary Antibodies

Clone Name: KT3
Applications: FC

Recommended Dilution: Flow Cytometry: Use 10 μl of Neat - 1/10 diluted antibody to label 10e6 cells or 100 μl whole

blood. For optimal staining incubations should be performed at RT. The Fc region of

monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors.

Reactivity: Mouse **Host:** Rat

Isotype: lgG2a

Clonality: Monoclonal

Immunogen: Spleen cells from immunised SD rats were fused with cells of the NSO mouse myeloma cell

line.

Specificity: This antibody recognises the CD3 antigen which is expressed by mature T cells.

Formulation: PBS containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer

Label: FITC

State: Liquid purified IgG fraction

Label: Fluorescein Isothiocyanate Isomer 1

Concentration: lot specific

Conjugation: FITC

Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Gene Name: CD3 antigen, epsilon polypeptide

Database Link: Entrez Gene 12501 Mouse

P22646



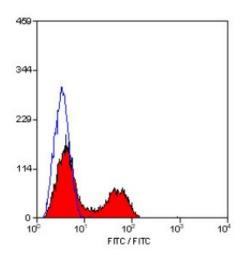


Background:

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

Product images:



Staining of Mouse peripheral blood lymphocytes with Rat Anti Mouse CD3 antibody FITC conjugated