

Product datasheet for SM003PT

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 Rat Monoclonal Antibody [Clone ID: KT3]

Product data:

Product Type: Primary Antibodies

Clone Name: KT3

Applications: FC, IHC

Recommended Dilution: Flow Cytometry: Use 10 μl of 1/100 diluted antibody to label 1x10e6 cells. For optimal

staining incubations should be performed at room temperature.

Immunohistochemistry on Frozen Sections.

For optimal staining incubations should be performed at room temperature.

Reactivity: Mouse Host: Rat

Isotype: IgG2a

Clonality: Monoclonal

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

line.

Specificity: This antibody recognizes the Mouse CD3 antigen, which is expressed by mature T cells.

The antibody may be used to trigger proliferation and cytotoxicity of CD3 positive cells.

Formulation: PBS, pH7.4 containing 0.09% Sodium Azide as preservative.

State: Purified

State: Liquid purified IgG fraction.

Concentration: lot specific

Purification: Affinity Chromatography on Protein G.

Conjugation: Unconjugated

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

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





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Background:

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