

Product datasheet for SM253P

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

Cd3d Mouse Monoclonal Antibody [Clone ID: 1F4]

Product data:

Product Type: Primary Antibodies

Clone Name: 1F4

Applications: FC, FN, IHC, IP

Recommended Dilution: Immunoprecipitation.

Flow Cytometry: Use 10 μl of 1/10-1/25 diluted antibody to label 16 cells in 100 μl.

Immunohistochemistry on Frozen Sections: 1/10-1/25. Immunohistochemistry on Paraffin Sections: 1/10.

This clone is suitable for use on Paraffin Embedded material using target unmasking fluid

(Ref.3).

Functional Assay: Functionally the addition of the antibody to a culture of Rat T cells induces the proliferation of T-cells in the presence of PMA. We recommend the use of Azide Free

SM253A for this purpose.

Reactivity: Rat

Host: Mouse

Isotype: IgM

Clonality: Monoclonal

Immunogen: F344 rat T cells stimulated with PMA (TPA) and calcium ionophore.

Specificity: This antibody recognizes Rat CD3, a 25kD antigen which is found on rat T-cells. This antibody

does not react with Rat B cells. In immunohistology it stains Rat thymus tissues strongly in the

medulla and weakly in the cortex.

Formulation: PBS containing 0.09% Sodium Azide as preservative.

State: Purified

State: Liquid purified IgM fraction.

Concentration: lot specific

Purification: Ammonium Sulphate Precipitation.

Conjugation: Unconjugated

Storage: Store 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: CD3d molecule

Database Link: Entrez Gene 25710 Rat

P19377

Background: T cell activation through the antigen receptor (TCR) involves the cytoplasmic tails of the CD3

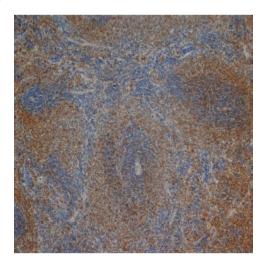
subunits: CD3 gamma, CD3 delta, CD3 epsilon and CD3 zeta. These CD3 subunits are

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: CD3D, T3D

Product images:



CD3 Antibody Staining of Paraffin Embedded Rat Spleen.