

Product datasheet for **SM1839F**

CD3 Mouse Monoclonal Antibody [Clone ID: FN-18]

Product data:

Product Type:	Primary Antibodies
Clone Name:	FN-18
Applications:	FC
Recommended Dilution:	Flow Cytometry: Use 50 µl of 1/10 diluted antibody to label 1 ⁶ cells in 100 µl.
Reactivity:	Monkey, Rhesus Monkey
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Rhesus monkey peripheral blood leucocytes. Spleen cells from immunised mice were fused with cells of the mouse SP2/0 Ag14 myeloma cell line.
Specificity:	This antibody recognises the Rhesus Monkey RhT3 antigen, the homologue of Human CD3. Clone FN18 has been reported to recognise a polymorphic epitope of the RhT3 antigen, which is expressed by mature T lymphocytes.
Formulation:	PBS containing 1% BSA and 125mM Trehalose Label: FITC State: Lyophilized purified IgG fraction Label: Fluorescein Isothiocyanate Isomer 1
Reconstitution Method:	Restore with 0.5 ml distilled water. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. We recommend that the vial is gently mixed after reconstitution. For long term storage the addition of 0.09% Sodium Azide and 1% BSA is recommended.
Purification:	Affinity Chromatography on Protein A
Conjugation:	FITC
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store 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.



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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