

Product datasheet for **SM1058F**

CD4 Mouse Monoclonal Antibody [Clone ID: RPA-T4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	RPA-T4
Applications:	FC
Recommended Dilution:	Flow Cytometry: Use 10 µl of neat-1/10 diluted antibody to label 1 ⁰ cells or 100 µl of lysed whole peripheral blood.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human PHA blasts. Spleen cells from immunised BALB/c mice were fused with cells of the mouse NSI myeloma cell line.
Specificity:	This antibody recognizes CD4. Epitope mapping studies have shown that antibodies, produced by clone RPA-T4, recognize an epitope within domain 1, of the extracellular region, of the CD4 molecule. Clone RPA-T4 has been reported to block gp120-CD4 interaction and inhibit syncytium formation. We recommend the use of SM1058LE for this purpose.
Formulation:	PBS, pH 7.4 Label: FITC State: Liquid purified IgG fraction from tissue culture supernatant Stabilizer: 1% BSA Preservative: 0.09% Sodium Azide Label: Fluorescein Isothiocyanate Isomer 1
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	FITC
Storage:	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.



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Stability:	Shelf life: one year from despatch.
Gene Name:	CD4 molecule
Database Link:	Entrez Gene 920 Human P01730
Background:	CD4 is a single chain transmembrane glycoprotein (59 kDa) which belongs to the immunoglobulin superfamily. CD4 is present on a subset of T lymphocytes ("helper/inducer" T cells) and is also expressed at a lower level on monocytes, tissue macrophages and granulocytes. The antigen is involved in binding to MHC class II molecules. The intracellular domain of the antigen is associated with p56lck protein tyrosine kinase.
Synonyms:	T-cell surface antigen T4/Leu-3

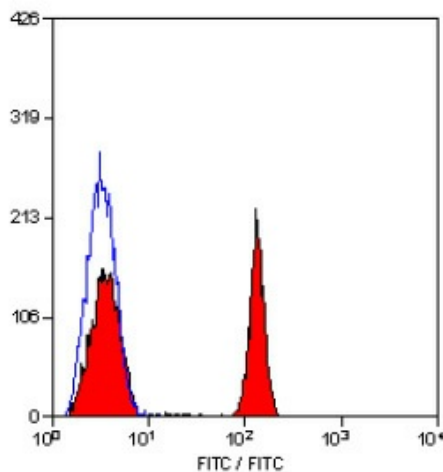
Product images:

Figure 1. Staining of human peripheral blood lymphocytes with Mouse Anti Human CD4-FITC.