

Product datasheet for **SM005PT**

Cd4 Rat Monoclonal Antibody [Clone ID: YTS191.1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	YTS191.1
Applications:	FC, IHC
Recommended Dilution:	Flow Cytometry: Use 10 µl of 1/50-1/100 diluted antibody to label 10e6 cells. Immunohistochemistry on Frozen Sections.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2b
Clonality:	Monoclonal
Specificity:	This antibody recognises the CD4 cell surface antigen, expressed by a subset of T-lymphocytes. This clone exhibits depleting activity when used in vivo (Antibody SM005LE is recommended for this purpose).
Formulation:	PBS, pH 7.4, with 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:	CD4 antigen
Database Link:	Entrez Gene 12504 Mouse P06332



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- 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