

## SM005LE

## Monoclonal Antibody to CD4 - Low Endotoxin

<b>Alternate names:</b>	T-cell surface antigen T4/Leu-3, T-cell surface glycoprotein CD4
<b>Quantity:</b>	0.5 mg
<b>Concentration:</b>	1.0 mg/ml
<b>Background:</b>	CD4, a single chain transmembrane glycoprotein, is found on a T cell subset (helper/inducer) representing 45 % of peripheral blood lymphocytes. It is also present on 80 % of thymocytes and at a lower level on monocytes. It is involved in recognition of antigen presented along with MHC class II by APCs. It serves as receptor for HIV.
<b>Uniprot ID:</b>	<a href="#">P06332</a>
<b>NCBI:</b>	<a href="#">NP_038516.1</a>
<b>GeneID:</b>	<a href="#">12504</a>
<b>Host / Isotype:</b>	Rat / IgG2b
<b>Clone:</b>	YTS191.1
<b>Format:</b>	<b>State:</b> Liquid purified IgG fraction. <b>Purification:</b> Affinity chromatography on Protein G <b>Buffer System:</b> PBS, pH 7.4 without preservatives.
<b>Applications:</b>	Flow Cytometry: Use 10µl of 1/100-1/200 diluted antibody to label 10e6 cells in 100 µl. Immunohistochemistry on Frozen Sections. Functional assays. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises the CD4 cell surface antigen, expressed by a subset of T lymphocytes. This clone exhibits depleting activity when used <i>in vivo</i> . <b>Species:</b> Mouse. Other species not tested.
<b>Add. Information:</b>	<b>Endotoxin Level:</b> less than 0.01 EU/µg
<b>Storage:</b>	Store the antibody at -20°C only. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Cobbold SP, Martin G, Waldmann H. The induction of skin graft tolerance in major histocompatibility complex-mismatched or primed recipients: primed T cells can be tolerized in the periphery with anti-CD4 and anti-CD8 antibodies. Eur J Immunol. 1990 Dec;20(12):2747-55. PubMed PMID: 1980112. 2. Bemelman F, Honey K, Adams E, Cobbold S, Waldmann H. Bone marrow transplantation induces either clonal deletion or infectious tolerance depending on the dose. J Immunol. 1998 Mar 15;160(6):2645-8. PubMed PMID: 9510162. 3. Higgins LM, McDonald SA, Whittle N, Crockett N, Shields JG, MacDonald TT. Regulation of T cell activation in vitro and in vivo by targeting the OX40-OX40 ligand interaction: amelioration of ongoing inflammatory bowel disease with an OX40-IgG

fusion protein, but not with an OX40 ligand-IgG fusion protein. J Immunol. 1999 Jan 1;162(1):486-93. PubMed PMID: 9886424.

**Pictures:**

Staining of mouse spleen with RAT ANTI  
MOUSE CD4: LOW ENDOTOXIN

