

## Product datasheet for **CL004F**

### Cd4 Rat Monoclonal Antibody [Clone ID: CT-CD4]

#### Product data:

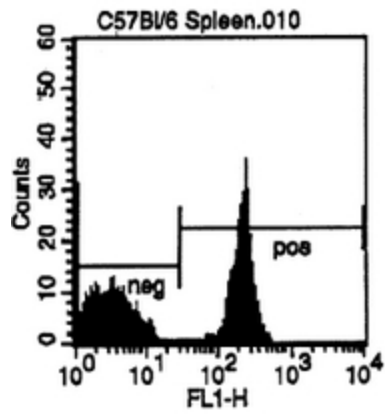
Product Type:	Primary Antibodies
Clone Name:	CT-CD4
Applications:	FC
Recommended Dilution:	<b>Flow Cytometry.</b>
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Specificity:	This antibody CL004F recognizes CD4 . Results for tissue distribution by Flow Cytometry analysis (Mouse strain BALB/c): Cell source Spleen T cells: Percentage of cells stained above control = 59.2% Cell source Thymus: Percentage of cells stained above control = 93.4% (Cell concentration = $1 \times 10^6$ cells per test, antibody concentration = $1.0 \mu\text{g}/10^6$ cells, isotypic control FITC Rat IgG2a).
Formulation:	PBS Label: FITC State: Liquid purified Ig fraction Stabilizer: EIA grade BSA Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Conjugation:	FITC
Storage:	Store the antibody 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.
Gene Name:	CD4 antigen
Database Link:	<a href="#">Entrez Gene 12504 Mouse P06332</a>



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<b>Background:</b>	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.
<b>Synonyms:</b>	T-cell surface antigen T4/Leu-3
<b>Note:</b>	<p>Protocol: <b>FLOW CYTOMETRY ANALYSIS:</b></p> <ol style="list-style-type: none"><li>1. Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population .</li><li>2. Wash 2 times.</li><li>3. Resuspend the cells to a concentration of <math>2 \times 10^7</math> cells/ml in media A. Add 50 <math>\mu</math>l of this suspension to each tube (each tube will then contain <math>1 \times 10^6</math> cells, representing 1 test).</li><li>4. To each tube, add <math>\sim 1.0 \mu</math>g of CL004F per <math>1 \times 10^6</math> cells.</li><li>5. Vortex the tubes to ensure thorough mixing of antibody and cells.</li><li>6. Incubate the tubes for 30 minutes at 4°C. (It is recommended that the tubes be protected from light, since most fluorochromes are light sensitive.)</li><li>7. Wash 2 times at 4°C.</li><li>8. Resuspend the cell pellet in 50 <math>\mu</math>l ice cold media B.</li><li>9. Transfer to suitable tubes for flow cytometric analysis containing 15 <math>\mu</math>l of propidium iodide at 0.5 mg/ml in PBS. This stains dead cells by intercalating in DNA.</li></ol> <p><b>Media:</b></p> <p>A. Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + Sodium Azide (100 <math>\mu</math>l of 2M Sodium Azide in 100 mls).</p> <p>B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine Serum Albumin + Sodium Azide (100 <math>\mu</math>l of 2M sodium azide in 100 mls).</p> <p><b><u>Tissue Distribution by Flow Cytometry Analysis:</u></b></p> <p>Mouse Strain: C57BL/6 Cell Concentration: <math>1 \times 10^6</math> cells per test Antibody Concentration Used: <math>1.0 \mu</math>g/<math>10^6</math> cells Isotypic Control: FITC Rat IgG2a</p>

## Product images:



Cell Source: CD3e Positive Spleen Cells.  
Percentage of cells stained above control: 52.4%