

## Product datasheet for **CL111A**

### **Ptpcr Mouse Monoclonal Antibody [Clone ID: OX-30]**

#### **Product data:**

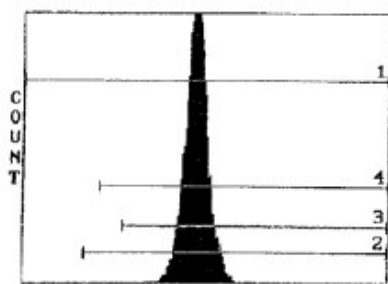
Product Type:	Primary Antibodies
Clone Name:	OX-30
Applications:	FC
Recommended Dilution:	Immunohistochemistry with frozen sections. This clone has been reported to be unsuitable for use with paraffin sections. Flow cytometry.
Reactivity:	Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Lymph node glycoproteins and cells
Specificity:	Antibody CL111A recognizes a monomorphic determinant of the leukocyte common antigen. (1)The antigen recognized is a heavily glycosylated membrane glycoprotein of molecular weight 170,000 kDa on thymocytes but molecular weight 170,000-220,000 kDa on other leukocytes. Results for: <u>Tissue distribution</u> by flow cytometry analysis (Rat Strain: Wistar): Cell source thymus: Percentage of cells stained above control = 99.9% Cell source spleen: Percentage of cells stained above control = 97.4% Cell source lymph node: Percentage of cells stained above control = 90.6% (Cell concentration = 1x10 <sup>6</sup> cells per test, antibody concentration used = 0.5 µg/10 <sup>6</sup> cells, isotypic control Mouse IgG2a). <u>Strain distribution</u> by flow cytometry analysis: Procedure: see below. Antibody concentration used = 0.5 µg/10 <sup>6</sup> cells Strains tested: Wistar, Buffalo, Brown Norway, Fischer 344 Positive: Wistar, Buffalo, Brown Norway, Fischer 344 Negative: none
Formulation:	State: Azide Free State: Liquid Ig fraction in PBS



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<b>Concentration:</b>	lot specific
<b>Purification:</b>	Protein G affinity chromatography
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	protein tyrosine phosphatase, receptor type, C
<b>Database Link:</b>	<a href="#">Entrez Gene 24699 Rat P04157</a>
<b>Background:</b>	The leukocyte common antigen (L-CA) is a major glycoprotein of haematopoietic cells but is not found on other tissues or erythroid cells. It is present on greater than 95% of thymocytes, bone marrow cells and thoracic duct lymphocytes. This molecule carries much of the carbohydrate of thymocytes and shows interesting heterogeneity amongst T lymphocytes and B lymphocytes. (2,3)
<b>Synonyms:</b>	PTPRC, Leukocyte common antigen, L-CA, T200
<b>Note:</b>	<p>Protocol: FLOW CYTOMETRY ANALYSIS:</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 2x10<sup>7</sup> cells/ml in media A. Add 50 µl of this suspension to each tube (each tube will then contain 1 x 10<sup>6</sup> cells, representing 1 test).</li> <li>4. To each tube, add 0.5-1.0 µg of CL111A.</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.</li> <li>7. Wash 2 times at 4°C.</li> <li>8. Add 100 µl of secondary antibody (FITC Goat anti-mouse IgG (H+L)).</li> <li>9. Incubate the tubes at 4°C for 30-60 minutes. (It is recommended that the tubes are protected from light since most fluorochromes are light sensitive).</li> <li>10. Wash 2 times at 4°C in media B.</li> <li>11. Resuspend the cell pellet in 50 µl ice cold media B.</li> <li>12. Transfer to suitable tubes for flow cytometric analysis containing 15 µl of propidium iodide at 0.5 mg/ml in PBS. This stains dead cells by intercalating in DNA.</li> </ol> <p>Media:</p> <p>A. Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + sodium azide (100 µl of 2M sodium azide in 100 mls).</p> <p>B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100 µl of 2M sodium azide in 100 mls).</p>

## Product images:



LFL1

Cell Source: Thymus

Percentage of cells stained above control: 99.9%