

Product datasheet for **CL121PX**

MHC Class II RT1D Mouse Monoclonal Antibody [Clone ID: OX-17]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OX-17
Applications:	FC, IHC, IP
Recommended Dilution:	Flow Cytometry.
Reactivity:	Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Rat spleen membrane glycoproteins depleted of Ia-A antigens Immunocyte Donor: BALB/c spleen Fusion Partner: X63 Ag8.653
Specificity:	This monoclonal antibody recognizes a monomorphic determinant on the α chain of the rat Ia antigen and appears to be the rat homologue of mouse Ia-E. It recognizes the rat Ia product present on B, but not T cells from lymph node or thoracic duct lymph. It does not bind to thymocytes or erythrocytes. The antibody does not cross-react with rat Ia-A or mouse Ia-E antigen, but rabbit antibody raised against the antibody affinity column-purified MRC OX-17 antigen cross-reacted on tissues of mice expressing Ia-E mouse antigen but not on those mouse strains that were Ia-E antigen negative.
Formulation:	PBS with 0.02% sodium azide State: Purified State: Liquid IgG
Concentration:	lot specific
Purification:	Protein G affinity chromatography
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.
Synonyms:	HLA Class II



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Note: Protocol: **FLOW CYTOMETRY ANALYSIS:**

METHOD:

1. Prepare cell suspension in media A. For cell preparations, deplete the red blood cell population with Lympholyte®-Rat. cell separation medium.
2. Wash 2 times.
3. Resuspend cells to 1×10^6 cells in approximately 50 μ l media A in a microcentrifuge tube. (i.e. 50 μ l of cells resuspended to 2×10^7 cells/ml). The contents of 1 tube represent 1 test.
4. To each tube add 50 μ l of a 1:250 - 1:500 dilution of this Ab.
5. Vortex the tubes to ensure thorough mixing of antibody and cells.
6. Incubate the tubes for 30 minutes at 4°C.
7. Wash 2 times at 4°C.
8. Add 100 μ l of secondary antibody (FITC Goat anti-mouse IgG (H+L)) at 1:700 dilution.
9. Incubate tubes at 4°C for 30-60 minutes. (It is recommended that the tubes are protected from light since most fluorochromes are light sensitive).
10. Wash 2 times at 4°C in Media B.
11. Resuspend the cell pellet in 50 μ l ice cold Media B.
12. Transfer to suitable tubes for flow cytometric analysis containing 15 μ l of propidium iodide at 0.5 mg/ml in phosphate buffered saline. (This stains dead cells by intercalating DNA).

MEDIA:

- A. Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + sodium azide (100 μ l of 2 M sodium azide in 100 mls).
- B. Phosphate buffered saline (pH 7.2) + 0.5% bovine serum albumin + sodium azide (100 μ l of 2 M sodium azide in 100 mls).

RESULTS:

Rat Strain: Lewis Rat

Cell Concentration: 1×10^6 cells per test

Antibody Concentration: 1:400

Isotypic Control: Mouse IgG1, κ

CELL SOURCE PERCENT STAINING

Thymus 12%

Spleen 34%

Lymph Node 25%

STRAIN DISTRIBUTION:

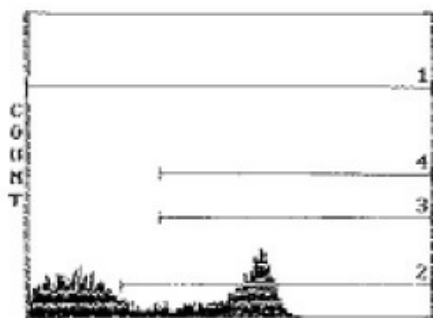
Antibody Concentration: 1:100

Strains Tested: Wistar, Buffalo, Brown Norway, Fischer 344

Positive: Wistar, Buffalo, Brown Norway, ACI, Fischer 344

Negative: none

Product images:

**LFL1**

Cell Source: Splenocytes

Percentage of Cells Stained Above Control: 34%