

## Product datasheet for **CL033RX**

### **Cd72 (CD72.1 alloantigen) Mouse Monoclonal Antibody [Clone ID: CT-72.1]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	CT-72.1
<b>Applications:</b>	FC
<b>Recommended Dilution:</b>	Flow cytometry.
<b>Reactivity:</b>	Mouse
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG2a
<b>Clonality:</b>	Monoclonal
<b>Specificity:</b>	This monoclonal antibody reacts with the CD72 alloantigen CD72.1, a B-cell surface protein that is encoded by the Cd72a allele. CD72.1 is expressed on cells of the B cell lineage, except plasma cells <sup>1</sup> . Mouse strains expressing CD72.1 include C57L <sup>-/-</sup> , C58 <sup>-/-</sup> , DBA/1, DBA/2, and SWR/J.
<b>Formulation:</b>	PBS, 0.09% NaN <sub>3</sub> and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml Label: PE State: Liquid purified Ig
<b>Concentration:</b>	lot specific
<b>Conjugation:</b>	PE
<b>Storage:</b>	Store the antibody undiluted at 2-8°C. DO NOT FREEZE! This antibody is photosensitive and should be protected from light.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	CD72 antigen
<b>Database Link:</b>	<a href="#">Entrez Gene 12517 Mouse P21855</a>



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**Background:** CD72 antigen is a member of the type II integral membrane glycoproteins which includes other related cell surface molecules such as the asialoglycoprotein receptors, CD23 and the Kupffer cell receptor. The function of CD72 is unknown but the exposure of B cells to CD72 antibodies activates a variety of signaling pathways and can induce MHC class II expression and B cell proliferation. CD72 antigen is expressed on all cells of B cell lineage with the exception of plasma cells and weakly on human tissue macrophages.

**Synonyms:** Lyb-2, Ly-32, Ly32, B-Cell marker

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

**Method:**

1. Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population with Lympholyte®-M cell separation medium.
2. Wash 2 times.
3. Resuspend the cells to a concentration of  $2 \times 10^7$  cells/ml in media A. Add 50  $\mu$ l of this suspension to each tube (each tube will then contain  $1 \times 10^6$  cells, representing 1 test).
4. To each tube, add  $\sim 0.25 \mu\text{g}^*$  of this Ab per  $10^6$  cells.
5. Vortex the tubes to ensure thorough mixing of antibody and cells.
6. Incubate the tubes for 30 minutes at  $4^\circ\text{C}$ . (It is recommended that the tubes are protected from light, since most fluorochromes are light sensitive.)
7. Wash 2 times at  $4^\circ\text{C}$ .
8. Resuspend the cell pellet in 50  $\mu$ l ice cold media B.
9. Transfer to suitable tubes for flow cytometric analysis containing 15  $\mu$ l of propidium iodide at 0.5 mg/ml in PBS. This stains dead cells by intercalating in DNA.

**Media:**

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

**Results - Tissue Distribution:**

Cell Concentration:  $1 \times 10^6$  cells per test

Antibody Concentration Used: 0.25  $\mu\text{g}/10^6$  cells

Isotypic Control: PE Mouse IgG2a

Strain Tested: DBA mouse