

## Product datasheet for **CL033F**

### **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 (For details please see "protocols" / "specificity" below).
<b>Reactivity:</b>	Mouse
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG2a
<b>Clonality:</b>	Monoclonal
<b>Specificity:</b>	<p>This 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>3</sup>. Mouse strains expressing CD72.1 include C57L<sup>-/-</sup>, C58<sup>-/-</sup>, DBA/1, DBA/2, and SWR/J.</p> <p>Tissue Distribution by Flow Cytometry Analysis: (Representative Dot Plot) Mouse Strain Tested: DBA/2 Cell Concentration : 1x10e6 cells per test Antibody Concentration Used: 0.25 µg/10e6 cells Isotypic Control: FITC Mouse IgG2a.</p>
<b>Formulation:</b>	<p>PBS, 0.09% sodium azide (NaN<sub>3</sub>) and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. Label: FITC State: Liquid purified Ig fraction</p>
<b>Concentration:</b>	lot specific
<b>Conjugation:</b>	FITC
<b>Storage:</b>	Store the antibody at 2 - 8 °C for up to one month. For long term storage, aliquot and freeze unused portion at -20 °C in volumes appropriate for single usage. Avoid repeated freezing and thawing This product is photosensitive and should be protected from light.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	CD72 antigen



[View online »](#)

**Database Link:** [Entrez Gene 12517 Mouse P21855](#)

**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:](#)

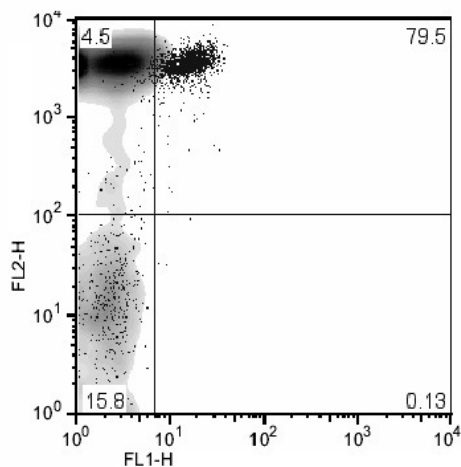
Method:

1. Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population.
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  $\sim 0.25$   $\mu$ g of antibody per  $1 \times 10^6$  cells.
5. Vortex the tubes to ensure thorough mixing of antibody and cells.
6. Incubate the tubes for 30 minutes at 4°C. (It is recommended that the tubes are protected from light, since most fluorochromes are light sensitive.)
7. Wash 2 times at 4°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).

## Product images:



Lymphocytes FL1-H: Mouse anti mouse CD72.1,  
FL2-H: B222 PE