

## Product datasheet for **AM31886BT-L**

### CD45 / LCA Rat Monoclonal Antibody [Clone ID: IBL-5/25]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	IBL-5/25
Applications:	FC
Recommended Dilution:	Immunohistochemistry on acetone-fixed frozen sections. Immunoprecipitation. Flow Cytometry.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	IL-3 dependent mast cells derived from WB- +/- mice <u>Donor:</u> Wistar spleen <u>Fusion Partner:</u> X63.653. Ag8
Specificity:	Anti-mouse CD45 monoclonal antibody detects CD45 (L-CA) which is a transmembrane phosphotyrosine phosphatase expressed on leukocytes. This mAb induces the in vitro clustering of mouse lymphocytes (both T and B cells).
Formulation:	PBS containing 0.02% sodium azide (NaN <sub>3</sub> ) as preservative and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. Label: Biotin State: Liquid purified Ig fraction
Concentration:	lot specific
Conjugation:	Biotin
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.
Gene Name:	protein tyrosine phosphatase, receptor type, C
Database Link:	<u><a href="#">Entrez Gene 19264 Mouse P06800</a></u>



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**Synonyms:** PTPRC, Leukocyte common antigen, L-CA, T200

**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 2.0  $\mu$ g of this antibody 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°C.
7. Wash 2 times at 4°C.
8. Add 100  $\mu$ l of secondary antibody (Streptavidin-FITC) at a 1/500 dilution.
9. Incubate tubes at 4°C for 30 - 60 minutes (It is recommended that tubes are protected from light since most fluorochromes are light sensitive).
10. Wash 2 times at 4°C.
11. Resuspend the cell pellet in 50  $\mu$ l ice cold media B.
12. 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 by Flow Cytometry Analysis:

Mouse Strain: BALB/c

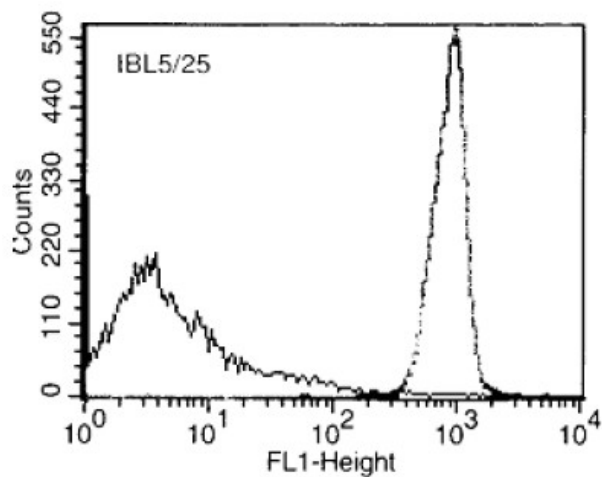
Cell Concentration:  $1 \times 10^6$  cells per test

Antibody Concentration Used: 2.0  $\mu$ g/ $10^6$  cells

Isotypic Control: Biotin Rat IgG1

Percentage of cells stained above control:

Mesenteric Lymph Node Cells 95%

**Product images:**

Cell Source: Lymph Node Percentage of cells stained above control: >95% (Representative Histogram)