

Product datasheet for **AM31886FC-L**

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

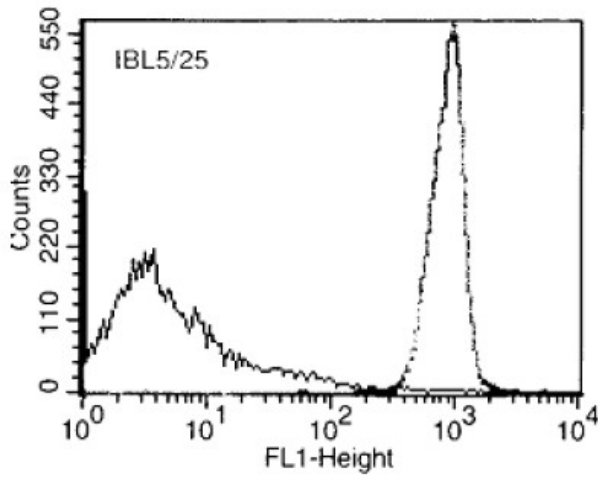
Product data:

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 ₃) as preservative 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 Label: Fluorescein isothiocyanate isomer 1
Concentration:	lot specific
Conjugation:	FITC
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



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Database Link:	Entrez Gene 19264 Mouse P06800
Synonyms:	PTPRC, Leukocyte common antigen, L-CA, T200
Note:	Protocol: FLOW CYTOMETRY ANALYSIS: Method: <ol style="list-style-type: none">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 2x10⁷ cells/ml in media A. Add 50 µl of this suspension to each tube (each tube will then contain 1 x 10⁶ cells, representing 1 test).4. To each tube, add 2.0 – 0.5 µg of this antibody per 10⁶ 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 µl ice cold media B.9. 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. Media: <ol style="list-style-type: none">A. Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + sodium azide (100 µl of 2M sodium azide in 100 mls).B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100 µl of 2M sodium azide in 100 mls). Results: <p>Tissue Distribution by Flow Cytometry Analysis: <u>Mouse Strain:</u> BALB/c <u>Cell Concentration:</u> 1x10⁶ cells per test <u>Antibody Concentration Used:</u> 2.0µg/10⁶ cells <u>Isotypic Control:</u> FITC Rat IgG1 <u>Percentage of cells stained above control:</u> Mesenteric Lymph Node Cells 95%</p>

Product images:

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