

Product datasheet for **AM31873FC-L**

CD45 / LCA (CD45RC) Rat Monoclonal Antibody [Clone ID: IBL-8]

Product data:

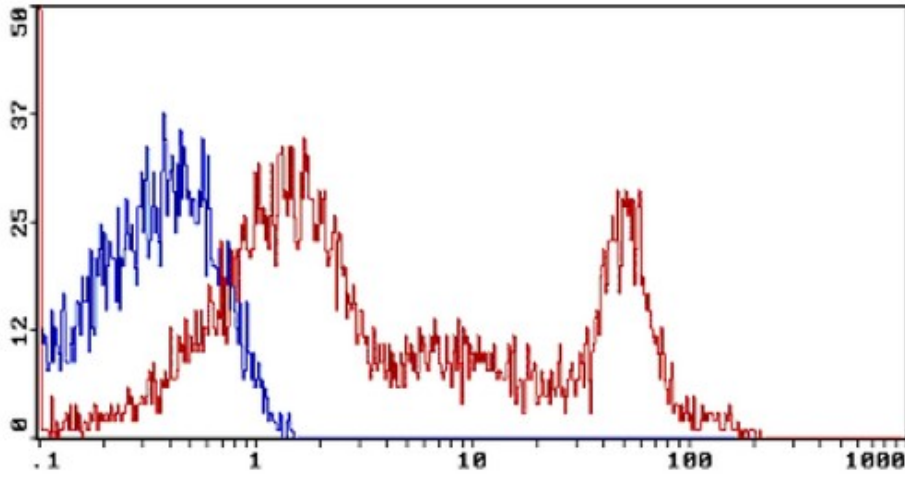
Product Type:	Primary Antibodies
Clone Name:	IBL-8
Applications:	FC
Recommended Dilution:	Immunohistochemistry on acetone-fixed frozen sections. Flow Cytometry. Immunoprecipitation.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Mouse Spleen Cells <u>Donor:</u> Wistar spleen <u>Fusion Partner:</u> Sp-2/0 Ag14
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
Database Link:	<u>Entrez Gene 19264 Mouse P06800</u>



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Background:	CD45 (L-CA) is a transmembrane phosphotyrosine phosphatase expressed on leukocytes. Anti-mouse CD45RC is against the exon C-dependent RC isoform and reacts strongly with B cells, and less intensely with most CD8+ T cells. It does not recognize CD4+ T cells. Also, myeloid cells do not express the RC isoform.
Synonyms:	PTPRC, Leukocyte common antigen, L-CA, T200
Note:	Protocol: <u>FLOW CYTOMETRY ANALYSIS:</u> 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 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: 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: Tissue Distribution by Flow Cytometry Analysis: <u>Mouse Strain:</u> BALB/c <u>Cell Concentration:</u> 1x10 ⁶ cells per test <u>Antibody Concentration Used:</u> 0.5 µg/10 ⁶ cells <u>Isotypic Control:</u> FITC Rat IgG1

Product images:



Percentage of cells stained above control: 44.3 %