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Product datasheet for AM31886FC-N

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 aceton-fixed frozen sections. Immunoprecipitation. Flow Cytometry.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	IL-3 dependent mast cells derived from WB- +/+ mice Donor: Wistar spleen Fusion Partner: 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 (NaN3) as preservative nd 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:

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 2x10e7 cells/ml in media A. Add 50 µl of this suspension to each tube (each tube will then contain 1 x 10e6 cells, representing 1 test).
4. To each tube, add 2.0 – 0.5 µg of this antibody per 10e6 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.

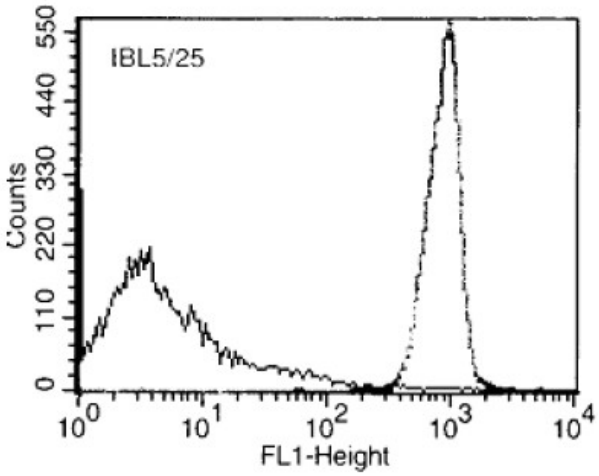
Media:

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:
Mouse Strain: BALB/c
Cell Concentration: 1x10e6 cells per test
Antibody Concentration Used: 2.0µg/10e6 cells
Isotypic Control: FITC 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)