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Product datasheet for CL009P

Cd8a Mouse Monoclonal Antibody [Clone ID: 49-31.1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	49-31.1
Applications:	CT, FC
Recommended Dilution:	Flow Cytometry.
Reactivity:	Mouse
Host:	Mouse
Isotype:	IgG3
Clonality:	Monoclonal
Immunogen:	Recipient: 129/ReJ Donor: CBA Fusion Partner: Spleen from immunized recipient fused with Myeloma P3 NSI-Ag 4-1
Specificity:	Anti-mouse Ly-2.1 monoclonal antibody reacts with a sub-population of lymphocytes from mouse strains expressing the Ly 2.1 (CD8a) phenotype, but does not react with lymphocytes from mouse strains expressing the Ly 2.2 phenotype.
Formulation:	PBS containing 0.02% sodium azide (NaN3) as preservative State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Affinity chromatography on Protein G
Conjugation:	Unconjugated
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:	CD8 antigen, alpha chain
Database Link:	Entrez Gene 12525 Mouse P01731
Synonyms:	CD8 alpha chain, CD8A, MAL

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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 1x10e6 cells, representing 1 test).
4. To each tube, add 0.1 - 0.05µg of this antibody.
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 µl of secondary antibody (FITC Goat anti-mouse IgG-3 (H+L)) at 1/500 dilution.
9. Incubate the tubes at 4°C for 30-60 minutes.

(It is recommended that the tubes are protected from light since most fluorochromes are light sensitive).

10. Wash 2 times at 4°C in media B.
11. Resuspend the cell pellet in 50 µl ice cold media B.
12. 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: C3H/He

Cell Concentration: 1x10e6 cells per test

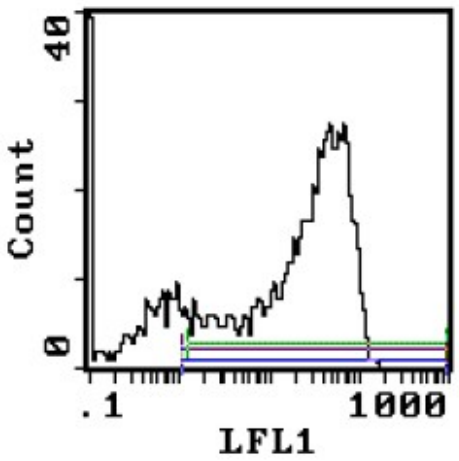
Antibody Concentration Used: 0.1 µg/10e6 cells

Isotypic Control: Purified Mouse IgG-3

Percentage of cells stained above control:

Thymus 78.9%

Product images:



Strain Distribution by Flow Cytometry Analysis:

Procedure: As above
Antibody Concentration: 0.1 µg/10^6 cells
Strains tested:

Strain	Phenotype	+/-
C57BL/6	Ly-2.2	-
CBA/J	Ly-2.1	+
Balb/c	Ly-2.2	-
C3H/He	Ly-2.1	+