

## Product datasheet for **CL013P**

### CD11a / ITGAL Mouse Monoclonal Antibody [Clone ID: 8-6.2]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	8-6.2
Applications:	FC
Recommended Dilution:	<b>Flow Cytometry</b> (See Protocols).
Reactivity:	Mouse
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	B6-Ly-1a Thymus, spleen and lymph node. Donor: 129/Rej spleen Fusion Partner: P3-NS-1 Ag-4
Specificity:	This CD11a Monoclonal Antibody identifies a cell surface glycoprotein consisting of two non-covalently associated chains with molecular weights of 180kDa (Alpha chain) (1) present on most common lymphocytes and T and B cells.
Formulation:	PBS containing 0.02% Sodium Azide as preservative State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein G Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Database Link:	<a href="#">P24063</a>



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**Background:** CD11a is a member of the integrin family of cell adhesion molecules. It is a glycoprotein expressed in combination with the CD18 beta chain. The complex is a member of the beta 2 integrin family. These molecules function in cell adhesion and specifically bind to CD54, ICAM2, ICAM3. CD11a is expressed on thymocytes, T and B lymphocytes, granulocytes, monocytes, and macrophages.

**Synonyms:** Integrin alpha-L, LFA1, LFA-1

- 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 0.2-0.5  $\mu$ g\* of CL013P.
  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 FITC Goat anti-Mouse IgG (H+L) secondary antibody at a 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  $\mu$ 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: C57BL/6

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

Antibody Concentration Used: 0.5  $\mu$ g/ $10^6$  cells

Isotypic Control: Purified Mouse IgG2a

Cell Source Percentage of cells stained above control:

Thymus: 99.7%

Strain Distribution:

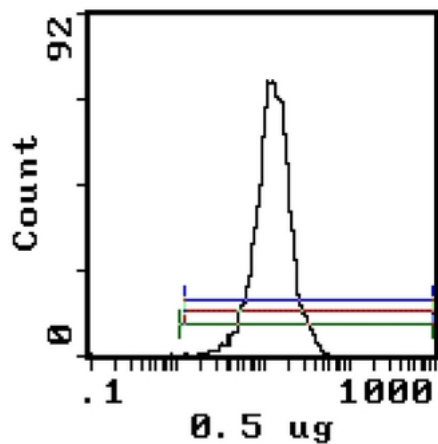
Antibody Concentration Used: 1/2000

Strains Tested: C57BL/6, BALB/c, AKR, CBA/J, C3H/HE

Positive: C57BL/6, CBA/J, C3H/He

Negative: BALB/c, AKR

Product images:



Cell Source: 99.6%