

## Product datasheet for **CL013F**

### 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 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
Concentration:	lot specific
Purification:	Protein G Chromatography
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. This product is photosensitive and should be protected from light.
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  $\sim 1.0 \mu\text{g}^*$  of CL013F or CL013FX.
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  $\mu$ l ice cold media B.
9. 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: CBA/J

Cell Concentration :  $1 \times 10^6$  cells per testAntibody Concentration Used: 1.0  $\mu\text{g}/10^6$  cells

Isotypic Control: FITC Mouse IgG2a

Cell Source Percentage of cells stained above control:

Thymus: 98.5%

Spleen: 92.2

Lymph Node: 96.8

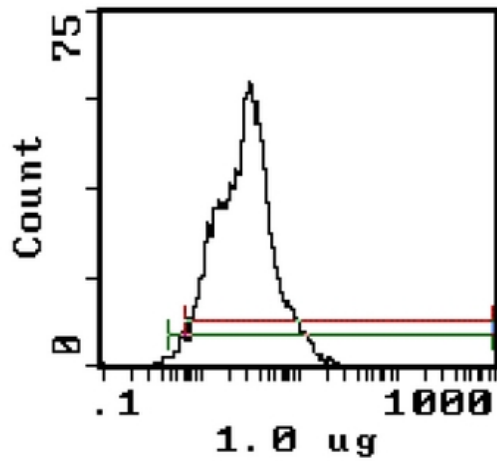
Strain Distribution:Cell Concentration:  $1 \times 10^6$  cells per testAntibody Concentration Used: 1.0  $\mu\text{g}/10^6$  cells

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

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

Negative: BALB/c, AKR

Product images:



Cell Source: Lymph Node Percentage of cells stained above control: 86.6%