

Product datasheet for **BM4046**

CD11a (ITGAL) Mouse Monoclonal Antibody [Clone ID: MEM-25]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-25
Applications:	FC, FN, IHC, IP
Recommended Dilution:	Immunohistochemistry on frozen sections (0.2 ug/ml, 1/2000). Flow Cytometry. Immunoprecipitation. Suggested positive control: Human tonsil.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Mixed leukocyte preparation.
Specificity:	MEM-25 recognizes the CD11a subunit of the $\alpha\text{L}\beta\text{2}$ integrin heterodimer, also called lymphocyte-function-associated antigen 1 (LFA-1). CD11a is a general marker of leucocytes in immune and other tissues. Does not react with non-hemopoietic tissue and platelets. The antibody blocks binding of CFA-1 to ICAM-1.
Formulation:	PBS buffer pH 7.2 with 0.05% sodium azide as preservative and 10 mg/ml BSA as stabilizer. State: Purified State: Lyophilized purified IgG fraction.
Reconstitution Method:	Restore with 0.6 ml distilled water.
Purification:	Affinity chromatography.
Conjugation:	Unconjugated
Storage:	Store the antibody at 2-8°C for one month or (in aliquots) at -20°C for longer. Do not freeze working dilutions Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	integrin subunit alpha L



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Database Link: [Entrez Gene 3683 Human P20701](#)

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: **Protocol with frozen, ice-cold acetone-fixed sections:**
The whole procedure is performed at room temperature

1. Wash in PBS
2. Block endogenous peroxidase
3. Wash in PBS
4. Block with 10% normal goat serum in PBS for 30min. in a humid chamber
5. Incubate with primary antibody (dilution see datasheet) for 1h in a humid chamber
6. Wash in PBS
7. Incubate with secondary antibody (peroxidase-conjugated goat anti mouse IgG+IgM (H+L) minimal-cross reaction to human) for 1h in a humid chamber
8. Wash in PBS
9. Incubate with AEC substrate (3-amino-9-ethylcarbazol) for 12min.
10. Wash in PBS
11. Counterstain with Mayer's hemalum.