

ITGAL monoclonal antibody, clone MEM-25 (Biotin)

Catalog # MAB4563

Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against native ITGAL.
Immunogen	Native purified ITGAL from leukocytes of patient suffering from LGL-type leukaemia.
Host	Mouse
Theoretical MW (kDa)	170-180
Reactivity	Human
Specificity	This antibody reacts with CD11a (alpha-subunit of human LFA-1), a 170-180 KDa type I transmembrane glycoprotein expressed on B and T lymphocytes, monocytes, macrophages, neutrophils, basophils and eosinophils.
Form	Liquid
Conjugation	Biotin
Isotype	IgG1
Recommend Usage	Flow Cytometry (1:120) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (0.09% sodium azide)
Storage Instruction	Store at 4°C. Do not freeze. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Flow Cytometry

Gene Info — ITGAL

Entrez GeneID	3683
Gene Name	ITGAL
Gene Alias	CD11A, LFA-1, LFA1A
Gene Description	integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide)
Omim ID	153370
Gene Ontology	Hyperlink
Gene Summary	ITGAL encodes the integrin alpha L chain. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This L-domain containing alpha integrin combines with the beta 2 chain (ITGB2) to form the integrin lymphocyte function-associated antigen-1 (LFA-1), which is expressed on all leukocytes. LFA-1 plays a central role in leukocyte intercellular adhesion through interactions with its ligands, ICAMs 1-3 (intercellular adhesion molecules 1 through 3), and also functions in lymphocyte costimulatory signaling. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]
Other Designations	LFA-1 alpha antigen CD11A (p180), lymphocyte function-associated antigen 1, alpha polypeptide integrin alpha L integrin gene promoter lymphocyte function-associated antigen 1

Publication Reference

- [Roles played by lymphocyte function-associated antigen-1 in the regulation of lymphocytic cholinergic activity.](#)
Fujii T, Takada-Takatori Y, Kawashima K.
Life Sciences 2007 Jan; 80(24-25):2320.
- [Membrane-proximal signaling events in beta-2 integrin activation.](#)
Kellersch B, Kolanus W.
Results and Problems in Cell Differentiation 2006 Jan; 43:245.
Application: Flow Cyt, Human, Human hematopoietic cells, Human T cells
- [Monoclonal antibodies against human leucocyte antigens. IV. Antibodies against subunits of the LFA-1 \(CD11a/CD18\) leucocyte-adhesion glycoprotein.](#)
Bazil V, Stefanová I, Hilgert I, Kristofová H, Vaněk S, Horejsí V.
Folia Biol (Praha) 1990 Jan; 36(1):41.

Pathway

- [Cell adhesion molecules \(CAMs\)](#)
- [Leukocyte transendothelial migration](#)
- [Natural killer cell mediated cytotoxicity](#)
- [Regulation of actin cytoskeleton](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Helicobacter Infections](#)
- [Stomach Ulcer](#)