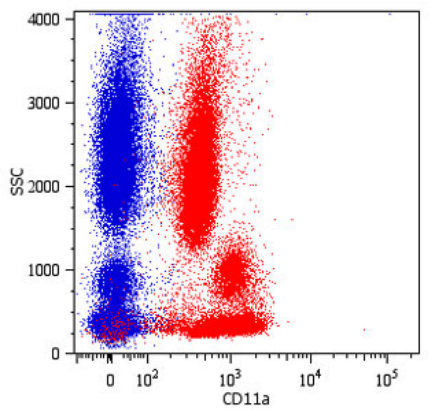
ITGAL monoclonal antibody, clone MEM-25 (PE)

Catalog # MAB4570 Size 100 Reactions

Applications



Flow Cytometry

Surface staining of human peripheral blood cells with ITGAL monoclonal antibody, clone MEM-25 (PE) (Cat # MAB4570).

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	PE
Isotype	IgG1

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Recommend Usage	Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10^6 cells in a suspension) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.2% BSA, 0.09% sodium azide)
Storage Instruction	Store in the dark at 4°C. Do not freeze. Avoid prolonged exposure to light. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Flow Cytometry

  Surface staining of human peripheral blood cells with ITGAL monoclonal antibody, clone MEM-25 (PE) (Cat # MAB4570).

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 polype ptide)
Omim ID	153370
Gene Ontology	Hyperlink
Gene Summary	ITGAL encodes the integrin alpha L chain. Integrins are heterodimeric integral membrane protein s composed of an alpha chain and a beta chain. This I-domain containing alpha integrin combine s with the beta 2 chain (ITGB2) to form the integrin lymphocyte function-associated antigen-1 (LF A-1), which is expressed on all leukocytes. LFA-1 plays a central role in leukocyte intercellular adh esion 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 diffe rent 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

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- 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

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