

Datasheet

ITGAL monoclonal antibody, clone MEM-25 (PE)

Catalog Number: MAB4570

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against native ITGAL.

Clone Name: MEM-25

Immunogen: Native purified ITGAL from leukocytes of patient suffering from LGL-type leukaemia.

Host: Mouse

Theoretical MW (kDa): 170-180

Reactivity: Human

Applications: Flow Cyt

(See our web site product page for detailed applications information)

Protocols: See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

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

Recommend Usage: Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10⁶ 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.

Entrez GeneID: 3683

Gene Symbol: ITGAL

Gene Alias: CD11A, LFA-1, LFA1A

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 I-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]

References:

1. Roles played by lymphocyte function-associated antigen-1 in the regulation of lymphocytic cholinergic activity. Fujii T, Takada-Takatori Y, Kawashima K. Life Sci. 2007 May 30;80(24-25):2320-4. Epub 2007 Jan 17.
2. Membrane-proximal signaling events in beta-2 integrin activation. Kellersch B, Kolanus W. Results Probl Cell Differ. 2006;43:245-57.
3. Monoclonal antibodies against human leucocyte antigens. IV. Antibodies against subunits of the LFA-1 (CD11a/CD18) leucocyte-adhesion glycoprotein. Bazil V, Stefanova I, Hilgert I, Kristofova H, Vanek S, Horejsi V. Folia Biol (Praha). 1990;36(1):41-50.