

CD11a Rabbit mAb

Catalog # AP76427

Product Information

Application	WB, IHC-P
Primary Accession	P24063
Reactivity	Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	128314

Additional Information

Gene ID	16408
Other Names	Itgal
Dilution	WB~~1:500-1:1000 IHC-P~~N/A
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

Name	Itgal {ECO:0000312 MGI:MGI:96606}
Synonyms	Lfa-1, Ly-15
Function	Integrin ITGAL/ITGB2 is a receptor for ICAM1, ICAM2, ICAM3 and ICAM4 (PubMed:2051027). Integrin ITGAL/ITGB2 is a receptor for F11R. Integrin ITGAL/ITGB2 is a receptor for the secreted form of ubiquitin-like protein ISG15; the interaction is mediated by ITGAL (PubMed:29100055). Involved in a variety of immune phenomena including leukocyte-endothelial cell interaction, cytotoxic T-cell mediated killing, and antibody dependent killing by granulocytes and monocytes. Contributes to natural killer cell cytotoxicity. Involved in leukocyte adhesion and transmigration of leukocytes including T-cells and neutrophils (PubMed:16234355, PubMed:24158516). Acts as a platform at the immunological synapse to translate TCR engagement and density of the ITGAL ligand ICAM1 into graded adhesion (By similarity). Required for generation of common lymphoid progenitor cells in bone marrow, indicating a role in lymphopoiesis (PubMed:25108025). Integrin

ITGAL/ITGB2 in association with ICAM3, contributes to apoptotic neutrophil phagocytosis by macrophages (By similarity). Integrins ITGAL:ITGB2 functions as a receptor of the neuron-specific adhesion molecule ICAM5 ensuring neuron cell-leukocyte adhesion. Integrin ITGAL/ITGB2 that functions as a signaling receptor of ICAM2, ensuring leukocyte cell-cell adhesion on resting cells (By similarity).

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:P20701}; Single-pass type I membrane protein. Membrane raft {ECO:0000250|UniProtKB:P20701}. Note=Upon antigen recognition by the TCR, is recruited to lipid rafts. {ECO:0000250|UniProtKB:P20701}

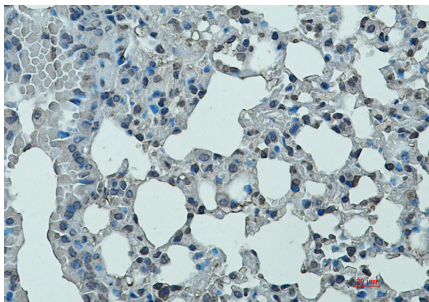
Tissue Location

Leukocytes.

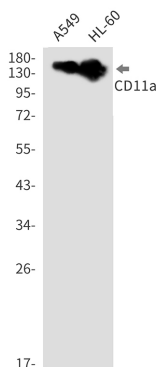
Background

CD11a is a 180 kD glycoprotein, also known as α L integrin, LFA-1 α , Ly-15, or Ly-21. It is a member of the integrin family, primarily expressed on lymphocytes, monocytes/macrophages, and granulocytes. In association with CD18, the CD11a/CD18 complex forms LFA-1. CD11a plays an important role in intercellular adhesion and costimulation by binding its ligands, ICAM-1 (CD54), ICAM-2 (CD102), and ICAM-3 (CD50).

Images



Immunohistochemistry analysis of paraffin-embedded mouse lung using Integrin alpha L antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Western blot analysis of CD11a in A549, HL-60 lysates using CD11a antibody.

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