

**CD11a / Integrin alphaL / LFA-1 alpha Chain Antibody - With BSA and Azide**  
**Mouse Monoclonal Antibody [Clone DF1524 ]**  
**Catalog # AH11605**

**Specification**

**CD11a / Integrin alphaL / LFA-1 alpha Chain Antibody - With BSA and Azide - Product Information**

Application	IF, FC
Primary Accession	<a href="#">P20701</a>
Other Accession	<a href="#">3683</a> , <a href="#">174103</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG2b, kappa
Calculated MW	180kDa KDa

**CD11a / Integrin alphaL / LFA-1 alpha Chain Antibody - With BSA and Azide - Additional Information**

**Gene ID** 3683

**Other Names**

Integrin alpha-L, CD11 antigen-like family member A, Leukocyte adhesion glycoprotein LFA-1 alpha chain, LFA-1A, Leukocyte function-associated molecule 1 alpha chain, CD11a, ITGAL, CD11A

**Application Note**

IF~~1:50~200  
FC~~1:10~50

**Storage**

Store at 2 to 8°C. Antibody is stable for 24 months.

**Precautions**

CD11a / Integrin alphaL / LFA-1 alpha Chain Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

**CD11a / Integrin alphaL / LFA-1 alpha Chain Antibody - With BSA and Azide - Protein Information**

**Name** ITGAL ([HGNC:6148](#))

**Synonyms** CD11A

**Function**

Integrin ITGAL/ITGB2 is a receptor for ICAM1, ICAM2, ICAM3 and ICAM4. Integrin ITGAL/ITGB2 is a receptor for F11R (PubMed: <http://www.uniprot.org/citations/11812992> target="\_blank">11812992</a>, PubMed: <http://www.uniprot.org/citations/15528364> target="\_blank">15528364</a>). Integrin ITGAL/ITGB2 is a receptor for the secreted form of

ubiquitin-like protein ISG15; the interaction is mediated by ITGAL (PubMed:<a href="http://www.uniprot.org/citations/29100055" target="\_blank">29100055</a>). 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 (PubMed:<a href="http://www.uniprot.org/citations/15356110" target="\_blank">15356110</a>). Involved in leukocyte adhesion and transmigration of leukocytes including T-cells and neutrophils (PubMed:<a href="http://www.uniprot.org/citations/11812992" target="\_blank">11812992</a>). Acts as a platform at the immunological synapse to translate TCR engagement and density of the ITGAL ligand ICAM1 into graded adhesion (PubMed:<a href="http://www.uniprot.org/citations/38195629" target="\_blank">38195629</a>). Required for generation of common lymphoid progenitor cells in bone marrow, indicating a role in lymphopoiesis (By similarity). Integrin ITGAL/ITGB2 in association with ICAM3, contributes to apoptotic neutrophil phagocytosis by macrophages (PubMed:<a href="http://www.uniprot.org/citations/23775590" target="\_blank">23775590</a>).

### **Cellular Location**

Cell membrane; Single-pass type I membrane protein. Note=Upon antigen recognition by the TCR, is recruited to lipid rafts (PubMed:15684041).

### **Tissue Location**

Leukocytes.

## **CD11a / Integrin alphaL / LFA-1 alpha Chain Antibody - With BSA and Azide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **CD11a / Integrin alphaL / LFA-1 alpha Chain Antibody - With BSA and Azide - Images**

## **CD11a / Integrin alphaL / LFA-1 alpha Chain Antibody - With BSA and Azide - Background**

Recognizes a protein of 180kDa, identified as CD11a (Leucocyte Workshop IV; Code 1524). CD11a complex with the 2 subunit of the integrin family, CD18, to form the cell surface heterodimer, LFA-1 or CD11a /CD18 (aLbL). LFA-1 is expressed on all leukocytes including lymphocytes, monocytes, and granulocytes. It is involved in leukocyte adhesion to its ligands including intercellular adhesion molecule-1 (ICAM-1 or CD54), ICAM-2 (CD102), ICAM-3 (CD50) and Telencephalin (TLN) and play a role in most immune/inflammatory responses. This MAb potentially blocks LFA-1 dependent homotypic cell aggregation.

## **CD11a / Integrin alphaL / LFA-1 alpha Chain Antibody - With BSA and Azide - References**

Knapp et al. (Eds.), Leukocyte Typing IV, 1989: Sections N1 (pp. 543.551), N1.I (pp. 551.553); N1.2 (pp. 553.554); N1.3 (pp. 555.558); N1.8 (pp. 566.570); N1.9 (pp. 570.574); N14.4 (pp. 689.693). | Petruzzelli L et al. Activation of lymphocyte function-associated molecule-1 (CD11a/CD18) and Mac-1 (CD11b/CD18) mimicked by an antibody directed against CD18. J Immunol 1995, 155(2):854-866. | Edwards CP et al. Mapping the intercellular adhesion molecule-1 and -2 binding site on the inserted domain of leukocyte function-associated antigen-1. J Biol Chem 1998, 273(44):28937-44. | Shang XZ and Issekutz AC. Contribution of CD11a/CD18, CD11b/CD18, ICAM-1

(CD54) and -2 (CD102) to human monocyte migration through endothelium and connective tissue fibroblast barriers. Eur J Immunol 1998, 28(6):1970-1979. | Tian L et al. The neuronal glycoprotein telencephalin is a cellular ligand for the CD11a/CD18 leukocyte integrin. J Immunol 1997, 158(2):928-936