

**CD11a Antibody**  
**Rabbit mAb**  
**Catalog # AP90606**

## Specification

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### CD11a Antibody - Product Information

|                                   |                        |
|-----------------------------------|------------------------|
| Application                       | WB, IHC, FC, ICC, IP   |
| Primary Accession                 | <a href="#">P20701</a> |
| Clonality                         | Monoclonal             |
| <b>Other Names</b>                |                        |
| CD11A; LFA-1; LFA1A; p180; ITGAL; |                        |
| Isotype                           | Rabbit IgG             |
| Host                              | Rabbit                 |
| Calculated MW                     | 128770 Da              |

### CD11a Antibody - Additional Information

|                              |                                                                                                                                                                                                                                                                             |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dilution                     | WB~~1:1000<br>IHC~~1:100~500<br>FC~~1:10~50<br>ICC~~N/A<br>IP~~N/A                                                                                                                                                                                                          |
| Purification                 | Affinity-chromatography                                                                                                                                                                                                                                                     |
| Immunogen                    | A synthesized peptide derived from human CD11a                                                                                                                                                                                                                              |
| Description                  | Integrin alpha-L/beta-2 is a receptor for ICAM1, ICAM2, ICAM3 and ICAM4. It is 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. |
| Storage Condition and Buffer | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.                                                                                           |

### CD11a Antibody - 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:<a href="http://www.uniprot.org/citations/11812992"

target="\_blank">11812992</a>, PubMed:<a href="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**

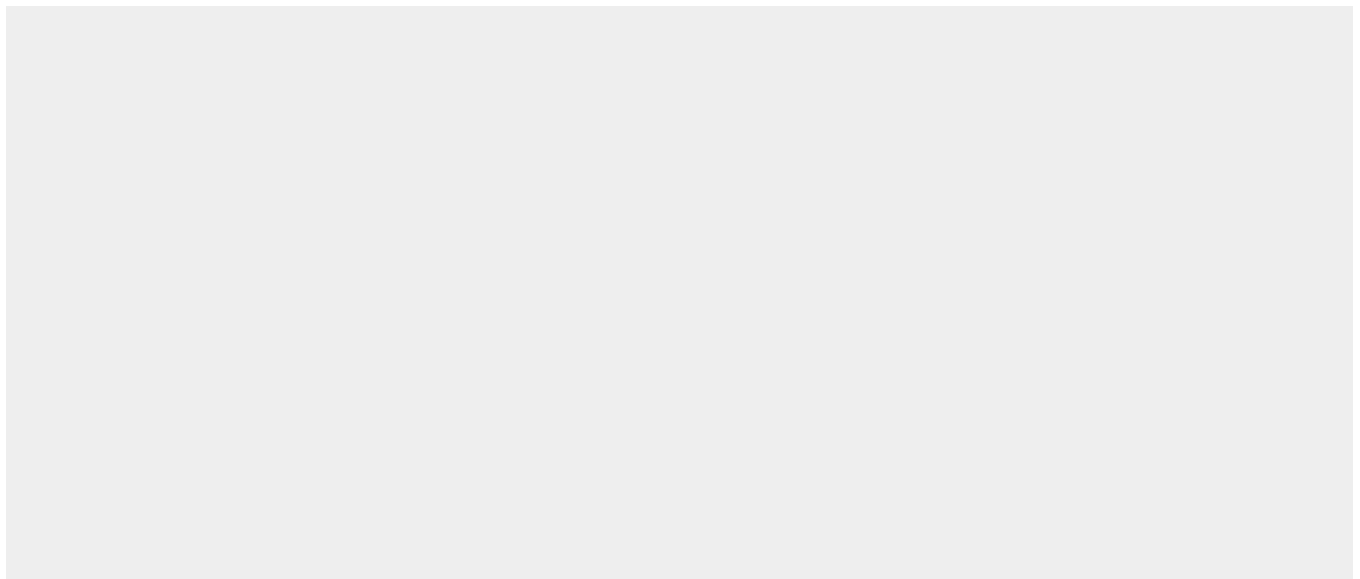
Leukocytes.

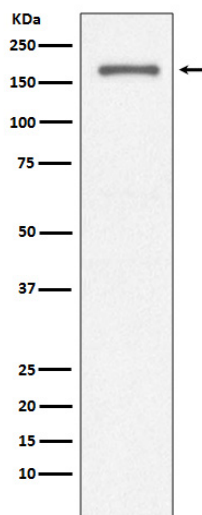
#### **CD11a Antibody - Protocols**

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 Antibody - Images**





Western blot analysis of CD11a expression in Jurkat cell lysate.