

ITGAL Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP13692c**Specification**

ITGAL Antibody (Center) Blocking peptide - Product InformationPrimary Accession [P20701](#)**ITGAL Antibody (Center) Blocking peptide - 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

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13692c was selected from the Center region of ITGAL. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ITGAL Antibody (Center) Blocking peptide - 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: [11812992](http://www.uniprot.org/citations/11812992)), PubMed: [15528364](http://www.uniprot.org/citations/15528364)). Integrin ITGAL/ITGB2 is a receptor for the secreted form of ubiquitin-like protein ISG15; the interaction is mediated by ITGAL (PubMed: [29100055](http://www.uniprot.org/citations/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 (PubMed: [15356110](http://www.uniprot.org/citations/15356110)). Involved in leukocyte adhesion and transmigration of

leukocytes including T-cells and neutrophils (PubMed:11812992). 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:23775590).

Cellular Location

Cell membrane; Single-pass type I membrane protein

Tissue Location

Leukocytes.

ITGAL Antibody (Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

ITGAL Antibody (Center) Blocking peptide - Images**ITGAL Antibody (Center) Blocking peptide - Background**

ITGAL encodes the integrin alpha L chain. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This L-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.

ITGAL Antibody (Center) Blocking peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Kuwano, Y., et al. Blood 116(4):617-624(2010) Ghannam, S., et al. J. Immunol. 185(1):302-312(2010) Quist, S.R., et al. Acta Derm. Venereol. 90(4):429-430(2010) Lipkin, S.M., et al. Cancer Prev Res (Phila) 3(5):597-603(2010)