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

Specification

ITGAL Antibody (Center) Blocking peptide - Product Information

Primary 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, PubMed:15528364). 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 (PubMed:15356110). Involved in leukocyte adhesion and transmigration of

leukocytes including T-cells and neutrophils (PubMed:11812992). Acts as a platform at the immunological synapse to translate TCR engagement and density of the ITGAL ligand ICAM1 into graded adhesion (PubMed:38195629). 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. Note=Upon antigen recognition by the TCR, is recruited to lipid rafts (PubMed:15684041).

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 areheterodimeric integral membrane proteins composed of an alpha chainand a beta chain. This I-domain containing alpha integrin combineswith the beta 2 chain (ITGB2) to form the integrin lymphocytefunction-associated antigen-1 (LFA-1), which is expressed on allleukocytes. LFA-1 plays a central role in leukocyte intercellularadhesion through interactions with its ligands, ICAMs 1-3(intercellular adhesion molecules 1 through 3), and also functionsin lymphocyte costimulatory signaling. Two transcript variantsencoding 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)