

human CD11a Antibody

Purified Mouse Monoclonal Antibody (Mab) Catalog # AM8654b

Specification

human CD11a Antibody - Product Information

Application Primary Accession Reactivity Host Clonality Isotype FC,E <u>P20701</u> Human Mouse monoclonal IgG1

human CD11a Antibody - Additional Information

Gene ID 3683

Dilution FC~~1:50

Format

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

human CD11a Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

human CD11a Antibody - Protein Information

Name ITGAL (<u>HGNC:6148</u>)

Synonyms CD11A

Function Integrin ITGAL/ITGB2 is a receptor for ICAM1, ICAM2, ICAM3 and ICAM4. Integrin ITGAL/ITGB2 is a receptor for F11R (PubMed:<u>11812992</u>, PubMed:<u>15528364</u>). Integrin ITGAL/ITGB2 is a receptor for the secreted form of ubiquitin-like protein ISG15; the interaction is mediated by ITGAL (PubMed:<u>29100055</u>). 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:<u>15356110</u>). Involved in leukocyte adhesion and transmigration of leukocytes including T-cells and neutrophils (PubMed:<u>11812992</u>). Acts as a platform at the immunological synapse to translate TCR engagement and density of the ITGAL ligand ICAM1 into graded adhesion (PubMed:<u>38195629</u>). 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:<u>23775590</u>).

Cellular Location

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

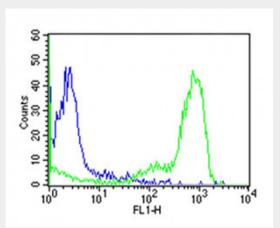
Tissue Location Leukocytes.

human CD11a Antibody - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

human CD11a Antibody - Images



Overlay histogram showing huuman peripheral blood lymphocytes stained with CD11a antibody(green line). The cells were icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (1:50 dilution) for 60min at 37°C. The secondary antibody used was Goat Anti-Mouse IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OJ192088) at 1/200 dilution for 40min at 37°C. Isotype control antibody (blue line) was mouse IgG1 (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.