Human Integrin αL/CD11a Antibody

Monoclonal Mouse IgG_{2A} Clone # CR38

Catalog Number: MAB35951

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Integrin αL/CD11a in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) Integrin α1, α2, α3, α4, α5, α6, α8, α9, α10, α11, αM, αV, αX, rhIntegrin β3, rhIntegrin α6(x1)+β4, α7(x2)+β1, αD+β2, αE+β7, recombinant mouse Integrin α2b or αL is observed.
Source	Monoclonal Mouse IgG_{2A} Clone # CR38
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Fibronectin purified human monocytes
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

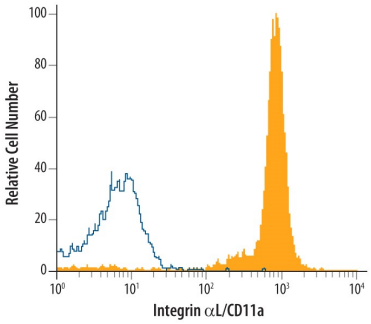
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Flow Cytometry	2.5 µg/10^6 cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

Flow Cytometry



Detection of Integrin αL/CD11a in Human peripheral blood monocytes by Flow Cytometry. Human peripheral blood monocytes were stained with Human Integrin αL/CD11a Monoclonal Antibody (Catalog # MAB35951, filled histogram) or isotype control antibody (Catalog # MAB003, open histogram), followed by Allophycocyanin-conjugated Anti-Mouse IgG $F(ab')_2$ Secondary Antibody (Catalog # F0101B).

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Integrin subunit αL/CD11a is a 180 kDa type I TM glycoprotein that interacts only with Integrin β2/CD18 to form LFA-1, a leukocyte adhesion protein which binds endothelial cell ICAM. Human Integrin αL contains a 1064 aa extracellular domain (ECD), a 20 aa TM sequence and a 58 aa cytoplasmic domain. The ECD contains seven repeats that form a beta-propeller structure and one inserted vWA domain (I domain) containing a metal ion-dependent adhesion site (MIDAS). Human and mouse Integrin αL ECD share 74% aa identity. A second isoform has a 53 aa insert in the ECD.

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