Human Integrin αL/CD11a Antibody

Monoclonal Mouse IgG_1 Clone # 345908

Catalog Number: MAB35952

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Integrin αL in Western blots.
Source	Monoclonal Mouse IgG_1 Clone # 345908
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Integrin αL Tyr26-Met1089 (Tyr660Ile) Accession # CAA68747
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose.

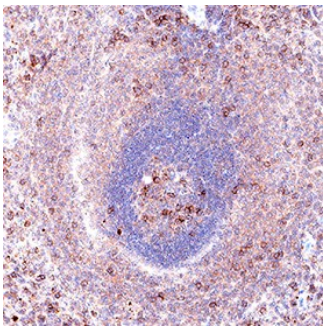
APPLICATIONS

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
Western Blot	2 µg/mL	Jurkat human acute T cell leukemia cell line
Immunohistochemistry	5-15 µg/mL	Immersion fixed paraffin-embedded sections of Human Spleen
Simple Western	50 µg/mL	Human PBMCs

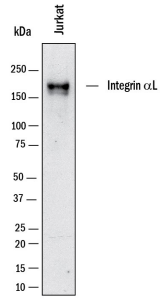
DATA

Immunohistochemistry



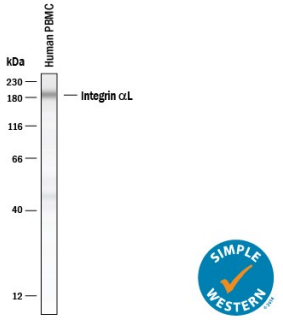
Detection of Integrin αL/CD11a in Human Spleen. Integrin αL/CD11a was detected in immersion fixed paraffin-embedded sections of Human Spleen using Mouse Anti-Human Integrin αL/CD11a Monoclonal Antibody (Catalog # MAB35952) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to lymphocytes. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

Western Blot



Detection of Human Integrin αL/CD11a by Western Blot. Western blot shows lysates of Jurkat Human Acute T Cell Leukemia Cells. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human Integrin αL/CD11a Monoclonal Antibody (Catalog # MAB35952) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Integrin αL/CD11a at approximately 160 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.

Simple Western



Detection of Human Integrin αL/CD11a by Simple Western™. Simple Western lane view shows lysates of Human PBMCs, loaded at 0.2 mg/mL. A specific band was detected for Integrin αL/CD11a at approximately 190 kDa (as indicated) using 50 µg/mL of Mouse Anti-Human Integrin αL/CD11a Monoclonal Antibody (Catalog # MAB35952). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449

Human Integrin αL/CD11a Antibody

Monoclonal Mouse IgG_1 Clone # 345908

Catalog Number: MAB35952

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
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.

Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 **Canada** TEL 855 668 8722 **China** TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449