Human ICAM-3/CD50 Antibody

Monoclonal Mouse IgG_1 Clone # 76203

Catalog Number: MAB8131

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ICAM-3/CD50 in direct ELISAs.
Source	Monoclonal Mouse IgG_1 Clone # 76203
Purification	Protein A or G purified from ascites
Immunogen	Mouse myeloma cell line NS0-derived recombinant human ICAM-3/CD50 Gln30-His485 Accession # CAA49473
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.

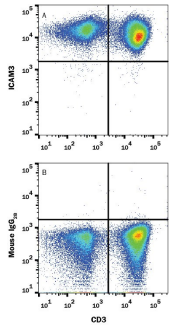
APPLICATIONS

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	0.25 µg/10^6 cells	PBMC lymphocytes
Immunohistochemistry	5-25 µg/mL	Immersion fixed paraffin-embedded sections of human lymph node
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

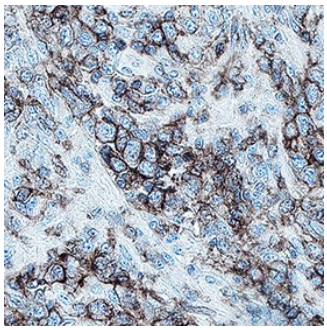
DATA

Flow Cytometry



Detection of ICAM-3/CD50 in Human Blood Lymphocytes by Flow Cytometry. Human peripheral blood lymphocytes were stained with (A) Mouse Anti-Human ICAM-3/CD50 Monoclonal Antibody (Catalog # MAB8131) or (B) Mouse IgG1 Isotype Control (Catalog # MAB002), followed by Allophycocyanin-conjugated anti-Mouse IgG secondary antibody (Catalog # F0101B) and Mouse Anti-Human CD3 epsilon PE-conjugated Monoclonal Antibody (Catalog # FAB100P). Staining was performed using our Staining Membrane-associated Proteins protocol.

Immunohistochemistry



ICAM-3/CD50 in Human Lymph Node. ICAM-3/CD50 was detected in immersion fixed paraffin-embedded sections of human lymph node using Mouse Anti-Human ICAM-3/CD50 Monoclonal Antibody (Catalog # MAB8131) 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 Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cell surface of lymphocytes. Staining was performed using our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

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. *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

Intercellular Adhesion Molecule-3 (ICAM-3; also known as CD50), a member of the immunoglobulin superfamily, binds the leukocyte integrins LFA-1 (CD11a/CD18) and α_d/β_2. ICAM-3 is expressed on leukocytes and epidermal Langerhans cells. It may play an important role in T cell stimulation by Langerhans cells. ICAM-3 has not been identified in the mouse.

References:

1. Hayflick, J. *et al.* (1998) Immunologic Res. **17**:313.

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