Human SLAM/CD150 Antibody

Monoclonal Mouse IgG_1 Clone # 542301

Catalog Number: MAB1642

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human SLAM/CD150 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG_1 Clone # 542301
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human SLAM/CD150 Ala21-Pro237 Accession # Q13291
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 as a 0.2 μm filtered solution in PBS.

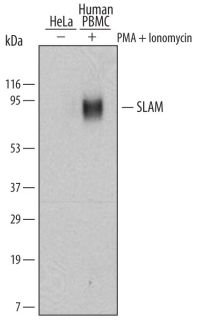
APPLICATIONS

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
Western Blot	2 µg/mL	See Below
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.	

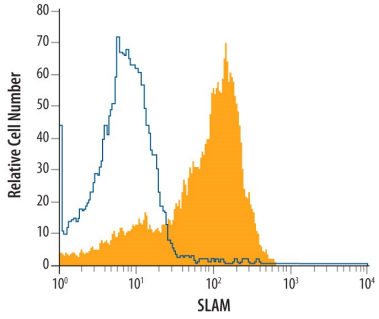
DATA

Western Blot



Detection of Human SLAM/CD150 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line and human peripheral blood mononuclear cells (PBMC) untreated (-) or treated (+) with 10 ng/mL PMA and 200 ng/mL ionomycin for 48 hours. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human SLAM/CD150 Monoclonal Antibody (Catalog # MAB1642), followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for SLAM/CD150 at approximately 85 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Flow Cytometry



Detection of SLAM/CD150 in Human Lymphocytes by Flow Cytometry. Human peripheral blood lymphocytes were stained with Mouse Anti-Human SLAM/CD150 Monoclonal Antibody (Catalog # MAB1642, filled histogram) or isotype control antibody (Catalog # MAB002, open histogram), followed by Allophycocyanin-conjugated Anti-Mouse IgG $F(ab')_2$ Secondary Antibody (Catalog # F0101B).

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

Signaling lymphocytic activation molecule (SLAM, SLAMF1; CD150) was the first identified of a family of type I transmembrane (TM) lymphocyte activating receptors. SLAM homotypic adhesion bidirectionally stimulates T and B cells. SLAM is also expressed by hematopoietic stem cells, dendritic cells and platelets and is a T cell measles virus receptor. The 70 kDa glycoprotein contains a 216 amino acid (aa) extracellular domain (ECD) with one C2 type and one V type Ig-like domain, a 20 aa TM sequence and a 76 aa SH2-binding cytoplasmic domain. One splice variant has a shorter cytoplasmic tail and another lacks the TM sequence and is secreted. Human and mouse SLAM ECD share 60% aa identity.

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