

Human SLAM/CD150 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF164

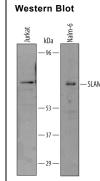
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human SLAM/CD150 in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant mouse SLAM, recombinant human (rh) CD48, rhCD84, and rh2B4/CD244 is observed.		
Source	Polyclonal Sheep IgG		
Purification	Antigen Affinity-purified		
Immunogen	Mouse myeloma cell line NS0-derived recombinant human SLAM/CD150 Thr25-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 either lyophilized or as a 0.2 µm filtered solution in PBS.		

APPLICATIONS

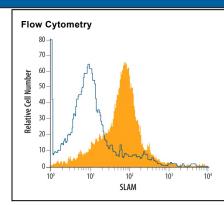
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below
Flow Cytometry	0.25 μg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled u with conjugation.	sing established conjugation methods. No BSA or other carrier proteins that could interfere





Detection of Human SLAM/CD150 by Western Blot. Western blot shows lysates of Jurkat human acute T cell leukemia cell line and Nalm-6 human Pre-B acute lymphocytic leukemia cell line. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human SLAM/CD150 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF164) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for SLAM/CD150 at approximately 70 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.



Detection of SLAM/CD150 in Human Lymphocytes by Flow Cytometry. Human whole blood lymphocytes were stained with Sheep Anti-Human SLAM/CD150 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF164, filled histogram) or isotype control antibody (Catalog # 5-001-A, open histogram), followed by NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # NL010).

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS.

ShippingThe 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 $^{\circ}$ 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

SLAM (also IPO-3 and CD150) is a 70-80 kDa member of the CD2 family of molecules. It is a costimulatory receptor that mediates T cell activation via SAP. SLAM is found on B cells, dendritic cells, macrophages, stem cells and Th1 T cells. SLAM engages in homophilic interactions. Mature human SLAM is 315 amino acids (aa) in length. It is a type I transmembrane glycoprotein whose extracellular domain contains one V-type and one C2-type Ig-like domain (aa 21-237). There is a 77 aa SH2-binding cytoplasmic domain. Four potential splice variants are suggested. One shows a deletion of aa 234-263 (potentially soluble), while three others show aa substitutions; i.e.-a ten aa substitution for aa 289-335, a six aa substitution for aa 264-335 and a 20 aa substitution for aa 125-335 (potentially soluble). Over aa 1-236, human SLAM shares 60% aa identity with mouse SLAM.

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