

TECHNICAL DATA SHEET

CyFlow™ CD150 Azide Free Anti-Hu; Clone SLAM.4

REF AU937694

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD150
Alternative Names	SLAMF1, IPO-3
Clone	SLAM.4
Clonality	monoclonal
Format	Azide Free
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Human CD150-transfected 300.19 cells

Specificity

The mouse monoclonal antibody SLAM.4 recognizes CD150 antigen, a cell surface molecule expressed on lymphocytes and involved in their activation.

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Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunoprecipitation
- Immunocytochemistry

Storage Buffer

The reagent is provided in azide-free phosphate buffered saline (PBS) solution, pH ≈7.4; 0.2 µm filter sterilized.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD150 (SLAM; signaling lymphocyte activation molecule) is a 70-95 kDa single chain transmembrane phosphoglycoprotein of the CD2 family. Its extracellular part contains eight potential N-glycosylation sites, and the intracellular tail contains three unique tyrosine-based motifs. These binding sites can be recognized by SH2-binding phosphatases and the adaptor proteins, such as SAP/SH2D1A or EAT-2. The SLAM family receptors are involved in leukocytes activation and contribute to the effective germinal center formation, generation of high-affinity antibody-secreting plasma cells, and memory T and B cells, thereby facilitating long-term immune response. CD150 expression is upregulated after cell activation.

References

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- Romero X, Benítez D, March S, Vilella R, Miralpeix M, Engel P: Differential expression of SAP and EAT-2-binding leukocyte cell-surface molecules CD84, CD150 (SLAM), CD229 (Ly9) and CD244 (2B4). Tissue Antigens. 2004 Aug; 64(2):132-44. < PMID: 15245368 >
- Romero X, Zapater N, Calvo M, Kalko SG, de la Fuente MA, Tovar V, Ockeloen C, Pizcueta P, Engel P: CD229 (Ly{09} lymphocyte cell surface receptor interacts homophilically through its N-terminal

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- De Salort J, Sintès J, Llinás L, Matesanz-Isabel J, Engel P: Expression of SLAM (CD150) cell-surface receptors on human B-cell subsets: from pro-B to plasma cells. Immunol Lett. 2011 Jan 30; 134(2):129-36. < PMID: 20933013 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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