

TECHNICAL DATA SHEET

CyFlow™ CD150 FITC **Anti-Hu; Clone SLAM.4**

REF **AW692255**

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	FITC
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity	100 tests
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.

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com

Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 4 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

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

- García VE, Quiroga MF, Ochoa MT, Ochoa L, Pasquinelli V, Fainboim L, Olivares LM, Valdez R, Sordelli DO, Aversa G, Modlin RL, Sieling PA: Signaling lymphocytic activation molecule expression and regulation in human intracellular infection correlate with Th1 cytokine patterns. J Immunol. 2001 Nov 15; 167(10):5719-24. < PMID: 11698444 >
- 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

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com

domain and relocates to the immunological synapse. J Immunol. 2005 Jun 1; 174(11):7033-42. < PMID: 15905546 >

- 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.

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com