



A4-660-T100

## Monoclonal Antibody to CD150 Alexa Fluor® 488 conjugated (100 tests)

<b>Clone:</b>	SLAM.4
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	The mouse monoclonal antibody SLAM.4 recognizes CD150, a cell surface molecule expressed on lymphocytes and involved in their activation.
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	Human CD150-transfected 300.19 cells
<b>Species Reactivity:</b>	Human
<b>Preparation:</b>	The purified antibody is conjugated with Alexa Fluor® 488 under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
<b>Storage Buffer:</b>	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
<b>Storage / Stability:</b>	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
<b>Usage:</b>	The reagent is designed for Flow Cytometry analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	CD150, also known as 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 leucocyte 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.

**For laboratory research only, not for drug, diagnostic or other use.**

**Antibodies****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.

\*Romero X, Martin M, Zapater N, Tovar V, Pizcueta P, Engel P: Expression of CD150 on human leukocytes. Production and characterisation of a new CD150 monoclonal antibody

De Salort J, Sintés 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.

\*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.

\*Romero X, Zapater N, Calvo M, Kalko SG, de la Fuente MA, Tovar V, Ockeloen C, Pizcueta P, Engel P: CD229 (Ly9) lymphocyte cell surface receptor interacts homophilically through its N-terminal domain and relocalizes to the immunological synapse. *J Immunol.* 2005 Jun 1;174(11):7033-42.

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