



A6-660-T100

Monoclonal Antibody to CD150 Alexa Fluor® 647 conjugated (100 tests)

Clone:	SLAM.4
Isotype:	Mouse IgG1
Specificity:	The mouse monoclonal antibody SLAM.4 recognizes CD150, a cell surface molecule expressed on lymphocytes and involved in their activation.
Regulatory Status:	RUO
Immunogen:	Human CD150-transfected 300.19 cells
Species Reactivity:	Human
Preparation:	The purified antibody is conjugated with Alexa Fluor® 647 under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Storage Buffer:	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
Storage / Stability:	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.
Usage:	The reagent is designed for Flow Cytometry analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.
Expiration:	See vial label
Lot Number:	See vial label
Background:	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.

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**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.

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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.

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*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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