

Ultra-LEAF™ Purified anti-mouse CD150 (SLAM) Recombinant Antibody

Catalog# / Size	110803 / 100 µg 110804 / 1 mg
Clone	QA20A54
Regulatory Status	RUO
Other Names	CD150, Signaling Lymphocyte Activation Molecule (SLAM), IPO-3
Isotype	Mouse IgG1, κ
Description	CD150 is a 75-95 kD member of the immunoglobulin superfamily, also known as SLAM (signaling lymphocyte activation molecule) or IPO-3. CD150, a single chain type I transmembrane molecule, is expressed on thymocytes, T cell subsets, B cells, dendritic cells, and endothelial cells. The expression is upregulated upon activation. CD150 expression has been shown to be maintained on Th1 but not Th2 clones. T regulatory cells express a relatively high level of CD150. Antibodies against CD150 have been shown to augment IFN-γ production by Th1 cells, especially when co-stimulated through the TCR. CD150 associates with the src homology 2-domain-containing protein tyrosine phosphatase SHP-2, and this association is thought to be involved in signal transduction. In combination with CD48, CD150 is a useful marker for hematopoietic stem cell studies.

Product Details

Verified Reactivity	Mouse
Antibody Type	Recombinant
Host Species	Mouse
Immunogen	RBL1 transfectant (1-287 a.a)
Formulation	0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is < 0.01 EU/µg of the protein (< 0.001 ng/µg of the protein) as determined by the LAL test.
Preparation	The Ultra-LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.
Concentration	The antibody is bottled at the concentration indicated on the vial, typically between 2 mg/mL and 3 mg/mL. To obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. This Ultra-LEAF™ solution contains no preservative; handle under aseptic conditions.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.
RRID	AB_2922460 (BioLegend Cat. No. 110803) AB_2922460 (BioLegend Cat. No. 110804)

Antigen Details

Structure	Ig superfamily, 75-95 kD
Distribution	Thymocytes, T cell subset, B lymphocytes, Dendritic cells, Endothelial cells
Function	B cell and dendritic cell costimulation
Ligand/Receptor	CD150

Cell Type	B cells, Dendritic cells, Endothelial cells, T cells, Thymocytes, Tregs
Biology Area	Costimulatory Molecules, Immunology, Innate Immunity
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	<ol style="list-style-type: none"> 1. Punnonen J, <i>et al.</i> 1997. <i>J Exp. Med.</i> 185:993-1004. 2. Gordienko I, <i>et al.</i> 2019. <i>Clin Immunol.</i> 204:14-22. 3. Kiel M, <i>et al.</i> 2005. <i>Cell.</i> 121:1109-21.

Gene ID [27218](#)

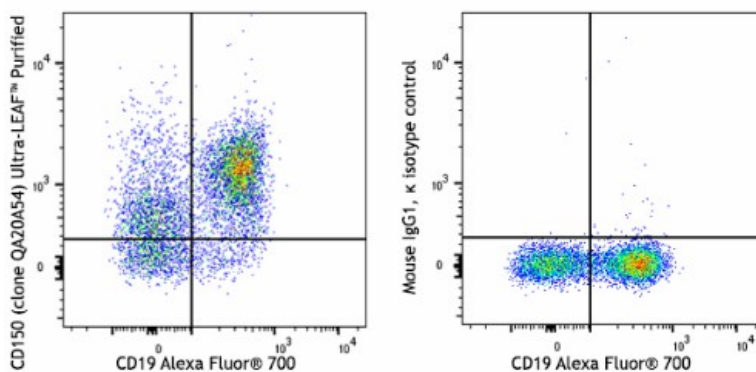
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

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Product Data



C57BL/6 mouse splenocytes were stained with anti-mouse CD19 Alexa Fluor® 700 and Ultra-Leaf™ purified anti-mouse CD150 (SLAM) recombinant antibody (clone QA20A54) (left) or purified mouse IgG1, κ isotype control (right) followed by PE anti-mouse IgG1.

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