

Purified anti-mouse CD150 (SLAM) (Maxpar[®] Ready) Antibody

Catalog# / Size	115933 / 100 µg
Clone	TC15-12F12.2
Regulatory Status	RUO
Other Names	Signaling Lymphocyte Activation Molecule (SLAM), IPO-3
Isotype	Rat IgG2a, λ
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	Monoclonal
Host Species	Rat
Immunogen	Mouse SLAM-human IgG1 fusion protein
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and EDTA.
Preparation	The antibody was purified by affinity chromatography.
Concentration	1.0 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C
Application	FC - Quality tested CyTOF[®] - Verified
Recommended Usage	This product is suitable for use with the Maxpar[®] Metal Labeling Kits . For metal labeling using Maxpar [®] Ready antibodies, proceed directly to the step to Partially Reduce the Antibody by adding 100 µl of Maxpar [®] Ready antibody to 100 µl of 4 mM TCEP-R in a 50 kDa filter and continue with the protocol. Always refer to the latest version of Maxpar [®] User Guide when conjugating Maxpar [®] Ready antibodies.
Application Notes	The TC15-12F12.2 antibody has been reported to enhance the production of IFN-γ by Th1 cells stimulated through TCR. Additional reported applications (for the relevant formats) include: immunoprecipitation ¹⁷ , enhancing IFN-γ production by Th1 cells when stimulated with CD3 ¹ , and inhibiting CD3 induced T cell proliferation ⁶ . The Ultra-LEAF™ purified antibody (Endotoxin <0.01 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 115949 & 115950).
Additional Product Notes	Maxpar [®] is a registered trademark of Standard BioTools Inc.
Application References	<ol style="list-style-type: none"> 1. Castro AG, <i>et al.</i> 1999. <i>J. Immunol.</i> 163:5860. (FC, Costim, IP) 2. Forsberg EC, <i>et al.</i> 2005. <i>PLoS Genet.</i> 1:e28. (FC) 3. Terrazas LI, <i>et al.</i> 2005. <i>Int. J. Parasitol.</i> 35:1349. (FC) 4. Cannons JL, <i>et al.</i> 2006. <i>J. Exp. Med.</i> 203:1551. (FC) 5. Umemoto T, <i>et al.</i> 2006. <i>J. Immunol.</i> 177:7733. (FC) 6. Jordan MA, <i>et al.</i> 2007. <i>J. Immunol.</i> 178:1618. (FC, Block) PubMed 7. Jung Y, <i>et al.</i> 2007. <i>Blood</i> 110:82. PubMed 8. Pimanda JE, <i>et al.</i> 2007. <i>Proc. Natl. Acad. Sci. USA</i> 104:840.
(PubMed link indicates BioLegend citation)	

9. Sugiyama T, *et al.* 2007. *Proc. Natl. Acad. Sci. USA* 104:175.
10. Kim I, *et al.* 2006. *Blood* 108:737. [PubMed](#)
11. Ema H, *et al.* 2006. *Nat Protoc.* 1:2979. [PubMed](#)
12. Fraser ST, *et al.* 2007. *Blood* 109:4616. [PubMed](#)
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16. Morita Y, *et al.* 2010. *J. Exp Med.* 207:1173. [PubMed](#)
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Product Citations

1. Khan KA, *et al.* 2020. *NPJ Breast Cancer.* 6:29. [PubMed](#)
2. Khan KA, *et al.* 2020. *NPJ Breast Cancer.* 6:29. [PubMed](#)
3. Snell LM, *et al.* 2018. *Immunity.* 49:678. [PubMed](#)

RRID

AB_2563721 (BioLegend Cat. No. 115933)

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. Cocks BG, <i>et al.</i> 1995. <i>Nature</i> 376:260. 2. Punnonen J, <i>et al.</i> 1997. <i>J. Exp. Med.</i> 185:993. 3. Sidorenko SP, <i>et al.</i> 1993. <i>J. Immunol.</i> 151:4614.
Gene ID	27218

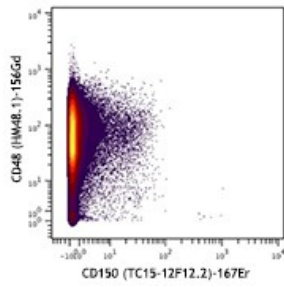
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse CD150 (SLAM), PE anti-mouse CD150 (SLAM), Biotin anti-mouse CD150 (SLAM), APC anti-mouse CD150 (SLAM), PE/Cyanine5 anti-mouse CD150 (SLAM), PE/Cyanine7 anti-mouse CD150 (SLAM), Alexa Fluor® 488 anti-mouse CD150 (SLAM), Alexa Fluor® 647 anti-mouse CD150 (SLAM), PerCP/Cyanine5.5 anti-mouse CD150 (SLAM), Pacific Blue™ anti-mouse CD150 (SLAM), Brilliant Violet 421™ anti-mouse CD150 (SLAM), Brilliant Violet 605™ anti-mouse CD150 (SLAM), Brilliant Violet 510™ anti-mouse CD150 (SLAM), Brilliant Violet 650™ anti-mouse CD150 (SLAM), Purified anti-mouse CD150 (SLAM) (Maxpar® Ready), PE/Dazzle™ 594 anti-mouse CD150 (SLAM), Brilliant Violet 785™ anti-mouse CD150 (SLAM), APC/Fire™ 750 anti-mouse CD150 (SLAM), Brilliant Violet 711™ anti-mouse CD150 (SLAM), TotalSeq™-A0203 anti-mouse CD150 (SLAM), TotalSeq™-C0203 anti-mouse CD150 (SLAM), Ultra-LEAF™ Purified anti-mouse CD150 (SLAM), TotalSeq™-B0203 anti-mouse CD150 (SLAM)

Product Data



Mouse bone marrow cells stained with 156Gd anti-CD48 (HM48.1) and 167Er anti-CD150 (TC15-12F12.2). Viable lineage- cells are displayed in the analysis. Data provided by DVS Sciences.

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