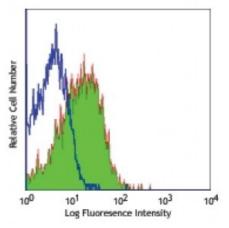
Product Data Sheet

Purified anti-mouse CD150 (SLAM)

Catalog # / Size:	1179510 / 500 μg 1179505 / 50 μg
Clone:	TC15-12F12.2
Isotype:	Rat IgG2a, λ
Immunogen:	Mouse SLAM-human IgG1 fusion protein
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.5



C57BL/6 mouse splenocytes were stained with purified CD150 (clone TC15-12F12.2) (filled histogram) or rat IgG2a isotype control (open histogram), followed by anti-rat IgG FITC.

Applications:

Applications:	Other
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 ≤ 0.25 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
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: immunoprecipitaion1, enhancing IFN- γ production by Th1 cells when stimulated with CD31, and inhibiting CD3 induced T cell proliferation ⁶ . The LEAF TM purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 115906).
Application References:	 Castro AG, <i>et al.</i> 1999. <i>J. Immunol.</i> 163:5860. (FC, Costim, IP) Forsberg EC, <i>et al.</i> 2005. <i>PLoS Genet.</i> 1:e28. (FC) Terrazas LI, <i>et al.</i> 2005. <i>Int. J. Parasitol.</i> 35:1349. (FC) Cannons JL, <i>et al.</i> 2006. <i>J. Exp. Med.</i> 203:1551. (FC) Umemoto T, <i>et al.</i> 2006. <i>J. Immunol.</i> 177:7733. (FC) Jordan MA, <i>et al.</i> 2007. <i>J. Immunol.</i> 178:1618. (FC, Block) PubMed Jung Y, <i>et al.</i> 2007. <i>Blood</i> 110:82. PubMed Pimanda JE, <i>et al.</i> 2007. <i>Proc. Natl. Acad. Sci. USA</i> 104:840. Sugiyama T, <i>et al.</i> 2007. <i>Proc. Natl. Acad. Sci. USA</i> 104:175. Kim I, <i>et al.</i> 2006. <i>Blood</i> 108:737. PubMed Eraser ST, <i>et al.</i> 2007. <i>Blood</i> 109:4616. PubMed Jung Y, <i>et al.</i> 2008. <i>Stem Cells.</i> 26:2042. PubMed Song J, <i>et al.</i> 2010. <i>Blood</i> 115:2592. PubMed Cridland SO, <i>et al.</i> 2009. <i>Blood Cell. Mol. Dis.</i> 43:149. (FC) PubMed Morita Y, <i>et al.</i> 2010. <i>J. Exp Med.</i> 207:1173. PubMed

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com **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.

Antigen 1. Cocks BG, *et al.* 1995. *Nature* 376:260.

References: 2. Punnonen J, et al. 1997. J. Exp. Med. 185:993.

3. Sidorenko SP, et al. 1993. J. Immunol. 151:4614.