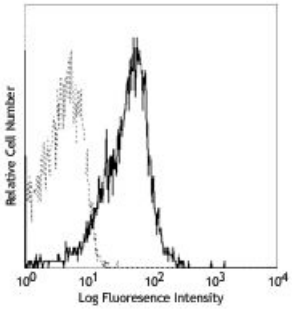
SONY

Product Data Sheet

APC anti-mouse CD150 (SLAM)

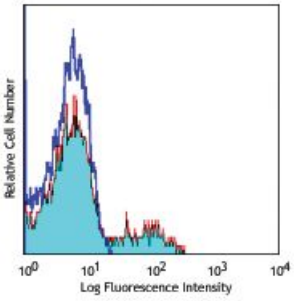
Catalog # / Size:	1179550 / 100 µg 1179545 / 25 µg
Clone:	TC15-12F12.2
Isotype:	Rat IgG2a, λ
Immunogen:	Mouse SLAM-human IgG1 fusion protein
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography, and conjugated with APC under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Workshop Number:	V B-CD73.3
Concentration:	0.2



C57BL/6 mouse splenocytes were stained with CD150 (clone TC15-12F12.2) APC (solid line) or rat IgG2a APC isotype control (broken line).

Applications:

Applications:	Flow Cytometry
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 µg per million cells in 100 µl 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™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 115906).



C57BL/6 mouse bone marrow cells were stained with CD150 (clone TC15-12F12.2) APC (filled histogram) or rat IgG2a APC isotype control (open histogram) (gated on lymphoid cell population).

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Application References:

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2. Forsberg EC, *et al.* 2005. *PLoS Genet.* 1:e28. (FC)
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9. Sugiyama T, *et al.* 2007. *Proc. Natl. Acad. Sci. USA* 104:175.
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13. Jung Y, *et al.* 2008. *Stem Cells.* 26:2042. Pubmed
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15. Cridland SO, *et al.* 2009. *Blood Cell. Mol. Dis.* 43:149. (FC) PubMed
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17. Talaei N, *et al.* 2015. *J. Immunol.* 195(10):4623. PubMed

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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 References:

1. Cocks BG, *et al.* 1995. *Nature* 376:260.
2. Punnonen J, *et al.* 1997. *J. Exp. Med.* 185:993.
3. Sidorenko SP, *et al.* 1993. *J. Immunol.* 151:4614.

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