

APC anti-mouse CD150 (SLAM)

Catalog # / Size: 1179550 / 100 µg
1179545 / 25 µg

Clone: TC15-12F12.2

Isotype: Rat IgG2a, λ

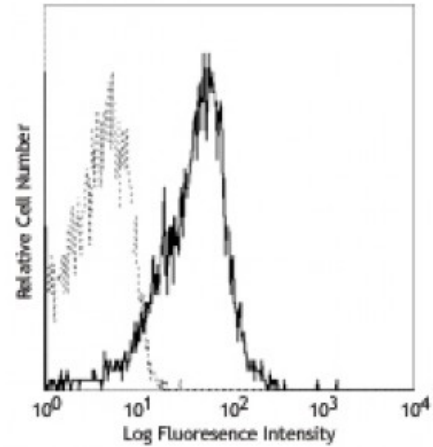
Immunogen: Mouse SLAM-human IgG1 fusion protein

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with APC under optimal conditions. The solution is free of unconjugated APC and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.2



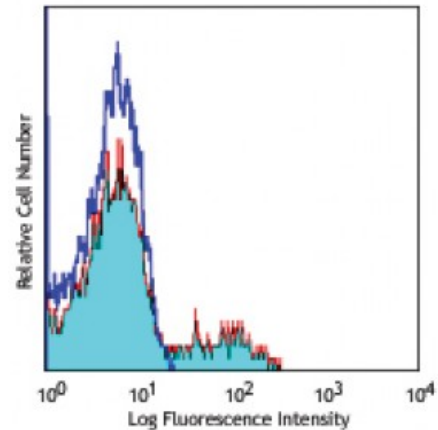
C57BL/6 mouse splenocytes were stained with CD150 (clone TC15-12F12.2) APC (solid line) or rat IgG2a APC isotype control (broken line).

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 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: immunoprecipitation¹, enhancing IFN-γ production by Th1 cells when stimulated with CD31, and inhibiting CD3 induced T cell proliferation⁶. 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).

- Application References:**
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 6. Jordan MA, *et al.* 2007. *J. Immunol.* 178:1618. (FC, Block) [PubMed](#)
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 12. Fraser ST, *et al.* 2007. *Blood* 109:4616. [PubMed](#)
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 17. Foudi A, *et al.* 2014. *J Exp Med.* 211:909. [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.