

Purified anti-mouse CD150 (SLAM)

Catalog # / Size: 1179505 / 50 µg
1179510 / 500 µg

Clone: TC15-12F12.2

Isotype: Rat IgG2a, λ

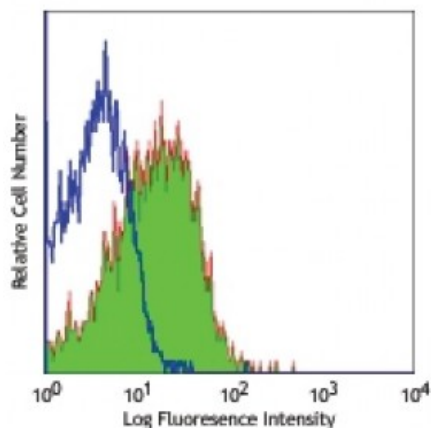
Immunogen: Mouse SLAM-human IgG1 fusion protein

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: 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).

- Application References:**
1. Castro AG, *et al.* 1999. *J. Immunol.* 163:5860. (FC, Costim, IP)
 2. Forsberg EC, *et al.* 2005. *PLoS Genet.* 1:e28. (FC)
 3. Terrazas LI, *et al.* 2005. *Int. J. Parasitol.* 35:1349. (FC)
 4. Cannons JL, *et al.* 2006. *J. Exp. Med.* 203:1551. (FC)
 5. Umemoto T, *et al.* 2006. *J. Immunol.* 177:7733. (FC)
 6. Jordan MA, *et al.* 2007. *J. Immunol.* 178:1618. (FC, Block) [PubMed](#)
 7. Jung Y, *et al.* 2007. *Blood* 110:82. [PubMed](#)
 8. Pimanda JE, *et al.* 2007. *Proc. Natl. Acad. Sci. USA* 104:840.
 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](#)
 13. Jung Y, *et al.* 2008. *Stem Cells.* 26:2042. [PubMed](#)
 14. Song J, *et al.* 2010. *Blood* 115:2592. [PubMed](#)
 15. Cridland SO, *et al.* 2009. *Blood Cell. Mol. Dis.* 43:149. (FC) [PubMed](#)
 16. Morita Y, *et al.* 2010. *J. Exp Med.* 207:1173. [PubMed](#)

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.