

## Anti-Mouse CD150 Antibody, Clone TC15-12F12.2, APC



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## Antibodies

Rat monoclonal IgG2a antibody  
against mouse CD150 (SLAM), APC-  
conjugated

Catalog #60036AZ  
#60036AZ.1

100 µg 0.2 mg/mL  
25 µg 0.2 mg/mL

## Product Description

The TC15-12F12.2 antibody reacts with CD150 (signaling lymphocyte activation molecule or SLAM), an ~75 kDa type I transmembrane glycoprotein that plays multiple roles in the immune response by serving as a cell adhesion molecule and/or coreceptor. It is differentially expressed by T cells, immature thymocytes, B cells, dendritic cells, macrophages, and endothelial cells. The expression pattern differs according to cell type and activation status. Expression is rapidly induced upon activation of T cells, B cells, and dendritic cells, with synthesis by T cells being maintained on Th1 but not Th2 clones. CD150-mediated co-stimulation of TCR-activated T cells enhances the production of IFN- $\gamma$  by Th1 cells, a response that can be augmented by binding of the TC15-12F12.2 antibody. CD150 is thought to mediate signal transduction by associating with the intracellular protein tyrosine phosphatase, SHP-2. CD150 also has functions in hematopoietic cell development and is a useful marker for detection of multipotent hematopoietic stem cells (in concert with other markers such as CD48 and CD41). CD150 is not expressed on non-multipotent hematopoietic progenitor cells.

|                      |   |
|----------------------|---|
| Target Antigen Name: | CD150 (SLAM)                                    |
| Alternative Names:   | IPO-3, Signaling lymphocyte activation molecule |
| Gene ID:             | 27218   |
| Species Reactivity:  | Mouse   |
| Host Species:        | Rat (LEW)                                       |
| Clonality:           | Monoclonal                                      |
| Clone:               | TC15-12F12.2                                    |
| Isotype:             | IgG2a, lambda                                   |
| Immunogen:           | Mouse SLAM-human IgG1 fusion protein            |
| Conjugate:           | APC (Allophycocyanin)                           |

## Applications

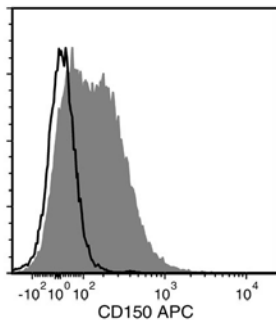
|           |          |
|-----------|----------|
| Verified: | FC       |
| Reported: | FACS, FC |

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

## Properties

|                        |  |
|------------------------|--|
| Formulation:           | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide   |
| Purification:          | The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions. The solution is free of unconjugated APC.   |
| Stability and Storage: | Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. For product expiry date, please contact <a href="mailto:techsupport@stemcell.com">techsupport@stemcell.com</a> . |
| Directions for Use:    | For flow cytometry, the suggested use of this antibody is $\leq 0.25$ µg per $1 \times 10^6$ cells in 100 µL. It is recommended that the antibody be titrated for optimal performance for each application.                        |

## Data



Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with Anti-Mouse CD150 Antibody, Clone TC15-12F12.2, APC (filled histogram) or a rat IgG2a isotype control antibody, APC (solid line histogram).

## Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, visit [www.stemcell.com/antibodies](http://www.stemcell.com/antibodies) or contact us at [techsupport@stemcell.com](mailto:techsupport@stemcell.com).

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