Antibodies

**Anti-Mouse CD150 Antibody, Clone TC15-12F12.2, Biotin**

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

<table>
<thead>
<tr>
<th>Catalog</th>
<th>100 μg</th>
<th>0.5 mg/mL</th>
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<tbody>
<tr>
<td>#60036BT</td>
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<tr>
<td>#60036BT.1</td>
<td>25 μg</td>
<td>0.5 mg/mL</td>
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**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-γ 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 (SLAM)

**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:** Biotin

**Applications**

**Verified:** FC

**Reported:** FC, IF, IHC

**Special Applications:** This antibody clone has been verified for labeling hematopoietic cells grown in StemSpan™ SFEM (Catalog #09600/09650) and StemSpan™-ACF (Catalog #09805/09855).

**Abbreviations:** CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; 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 biotin under optimal conditions. The solution is free of unconjugated biotin.

**Stability and Storage:** Product stable at 2 - 8°C when stored undiluted. Do not freeze. For product expiry date, please contact techsupport@stemcell.com.

**Directions for Use:** For flow cytometry the suggested use of this antibody is ≤ 0.25 μg per 1 x 10⁶ cells in 100 μL volume. 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, Biotin followed by streptavidin (SAV) APC (filled histogram), or a biotinylated rat IgG2a isotype control antibody followed by SAV 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, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References


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