Antibodies

Anti-Mouse CD150 Antibody,
Clone TC15-12F12.2,
Alexa Fluor® 488

Rat monoclonal IgG2a antibody
against mouse CD150 (SLAM),
Alexa Fluor® 488-conjugated

Catalog #60036AD
#60036AD.1
100 μg 0.5 mg/mL
25 μg 0.5 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-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: Alexa Fluor® 488

Applications

Verified: FC
Reported: FC
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 Alexa Fluor® 488 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 488.
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 techsupport@stemcell.com.
Directions for Use: For flow cytometry the suggested use of this antibody is ≤ 0.25 μg per 1 x 10^6 cells in 100 μL volume. It is recommended that the antibody be titrated for optimal performance for each application.
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Data

Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with Anti-Mouse CD150 Antibody, Clone TC15-12F12.2, Alexa Fluor® 488 (filled histogram) or a rat IgG2a, lambda Alexa Fluor® 488 isotype control antibody (open 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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