

CD150 Monoclonal Antibody (mShad150), Super Bright™ 645, eBioscience™

Product Details	
Size	25 µg
Host/Isotype	Rat / IgG2b, lambda
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Super Bright™ 645, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	mShad150
Conjugate	Super Bright™ 645
Excitation/Emission Max	414/645 nm
Form	Liquid
Concentration	0.2 mg/mL
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2717100

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	2 Publications

Product Specific Information

Description: The mShad150 monoclonal antibody reacts with mouse CD150, an ~70 kDa transmembrane glycoprotein also known as Signaling Lymphocyte Activation Molecule (SLAM). CD150 is expressed by T cells, in particular Th1, and B cells; this expression is rapidly upregulated upon activation. Immature thymocytes and dendritic cells also express this antigen. Signaling through SLAM in T cells induces proliferation and augmentation of the interferon-gamma response. Furthermore, SLAM is thought to play a role in adhesion between the T cell and antigen-presenting cell. The mShad150 antibody has been reported to also stain the CD150+CD244-CD48-CD41- population of pluripotent hematopoietic stem cells.

Applications Reported: This mShad150 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This mShad150 antibody has been tested by flow cytometric analysis of mouse splenocytes. This may be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Super Bright 645 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 645 nm. We recommend using a 660/20 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

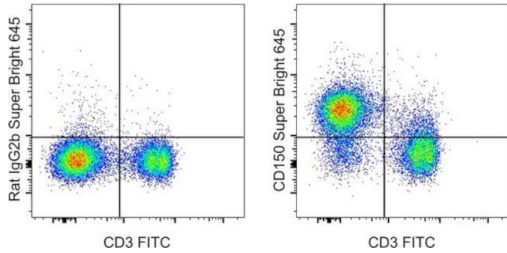
Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but

clone specific performance should be determined empirically.

Excitation: 405 nm; Emission: 645 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD150 Monoclonal Antibody (mShad150), Super Bright™ 645, eBioscience™



CD150 Antibody (64-1502-80) in Flow

C57BL/6 mouse splenocytes were stained with CD3 Monoclonal Antibody, FITC (Product # 11-0031) and 0.25 µg of Rat IgG2b kappa Isotype Control, Super Bright 645 (Product # 64-4031) (left) or 0.25 µg of CD150 Monoclonal Antibody, Super Bright 645 (Product # 64-1502) (right). Cells in the lymphocyte gate were used for analysis.

2 References

Flow Cytometry (2)

Wellcome open research

Activation of regulatory T cells triggers specific changes in glycosylation associated with Siglec-1-dependent inflammatory responses.

"Published figure using CD150 monoclonal antibody (Product # 64-1502-82) in Flow Cytometry"

Authors: Wu G, Murugesan G, Nagala M, McCraw A, Haslam SM, Dell A, Crocker PR

Year
2022

Journal of neuroinflammation

Effects of long-term and brain-wide colonization of peripheral bone marrow-derived myeloid cells in the CNS.

"Published figure using CD150 monoclonal antibody (Product # 64-1502-82) in Flow Cytometry"

Authors: Hohsfield LA, Najafi AR, Ghorbanian Y, Soni N, Hingco EE, Kim SJ, Jue AD, Swarup V, Inlay MA, Green KN

Year
2020

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