

CD223 (LAG-3) Monoclonal Antibody (3DS223H), Super Bright™ 600, eBioscience™

| Product Details | |
|-----------------------------|--|
| Size | 100 Tests |
| Species Reactivity | Human |
| Host/Isotype | Mouse / IgG1, kappa |
| Recommended Isotype Control | Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Super Bright™ 600, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | 3DS223H |
| Conjugate | Super Bright™ 600 |
| Excitation/Emission Max | 414/601 nm |
| Immunogen | hCD223-FC PFA 4% |
| Form | Liquid |
| Concentration | 5 µL/Test |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7.2, with BSA |
| Contains | 0.09% sodium azide |
| Storage conditions | 4° C, store in dark, DO NOT FREEZE! |
| RRID | AB_2688188 |

| Applications | Tested Dilution | Publications |
|-----------------------|---------------------|----------------|
| Flow Cytometry (Flow) | 5 µL (0.06 µg)/test | 5 Publications |

Product Specific Information

Description: This 3DS223H monoclonal antibody recognizes human CD223 also known as Lymphocyte Activation Gene 3 (LAG-3). LAG-3 is a 70-kDa surface glycoprotein belonging to the Ig superfamily with homology to CD4. LAG-3 binds to MHC class II with higher affinity than CD4 and is thought to be involved in the negative regulation of T cell activation and homeostatic proliferation. Surface expression of LAG-3 has been reported on activated T cells (including regulatory T cells) and NK cells. CD8+ T cells usually express LAG-3 at significantly higher levels than CD4+ T cells. Coexpression of LAG-3 and CD49b has been proposed to identify human and mouse Type 1 regulatory T cells (Tr1 cells).

This 3DS223H antibody will recognize a formaldehyde-fixed epitope.

Applications Reported: This 3DS223H antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 3DS223H antibody has been pre-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may be used at 5 µL (0.06 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.

Super Bright 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 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.

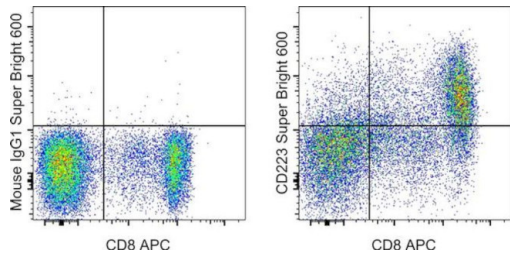
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

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: 600 nm; Laser: Violet Laser

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

Product Images For CD223 (LAG-3) Monoclonal Antibody (3DS223H), Super Bright™ 600, eBioscience™



CD223 (LAG-3) Antibody (63-2239-42) in Flow
Normal human peripheral blood cells were stimulated for 3 days with Human IL-2 Recombinant Protein (Product # 14-8029-81), Anti-Human CD3 (Product # 16-0037-81), and Anti-Human CD28 Functional Grade Purifieds (Product # 16-0289-81). These cells were then surface stained with Anti-Human CD8a APC (Product # 17-0088-42) and Mouse IgG1 K Isotype Control Super Bright 600 (Product # 63-4714-82) (left) or Anti-Human CD223 (LAG-3) Super Bright 600 (right). Cells in the lymphocyte gate were used for analysis.

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5 References

Flow Cytometry (5)

| | |
|---|------|
| Frontiers in oncology | Year |
| Low-density lipoprotein balances T cell metabolism and enhances response to anti-PD-1 blockade in a HCT116 spheroid model. | 2023 |
| "Published figure using CD223 (LAG-3) monoclonal antibody (Product # 63-2239-42) in Flow Cytometry" | |
| Authors: Babl N,Hofbauer J,Matos C,Voll F,Menevse AN,Rechenmacher M,Mair R,Beckhove P,Herr W,Siska P,J, Renner K,Kreutz M,Schnell A | |
| Frontiers in immunology | Year |
| Bispecific T-Cell Engaging Antibodies Against MUC16 Demonstrate Efficacy Against Ovarian Cancer in Monotherapy and in Combination With PD-1 and VEGF Inhibition. | 2021 |
| "Published figure using CD223 (LAG-3) monoclonal antibody (Product # 63-2239-42) in Flow Cytometry" | |
| Authors: Yeku OO,Rao TD,Laster I,Kononenko A,Purdon TJ,Wang P,Cui Z,Liu H,Brentjens RJ,Spriggs D | |

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