

CD314 (NKG2D) Monoclonal Antibody (CX5), Super Bright™ 600, eBioscience™

| Product Details | |
|-----------------------------|---|
| Size | 100 µg |
| Species Reactivity | Mouse |
| Host/Isotype | Rat / IgG1, kappa |
| Recommended Isotype Control | Rat IgG1 kappa Isotype Control (eBRG1), Super Bright™ 600, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | CX5 |
| Conjugate | Super Bright™ 600 |
| Form | Liquid |
| Concentration | 0.2 mg/mL |
| 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_2688155 |

| Applications | Tested Dilution | Publications |
|-----------------------|-----------------|----------------|
| Flow Cytometry (Flow) | 1.0 µg/test | 3 Publications |

Product Specific Information

Description: The CX5 monoclonal antibody reacts with the mouse NKG2D, a lectin-like molecule expressed on both human and mouse NK cells. Mouse NKG2D binds to retinoic acid-inducible RAE-1 alpha, beta, gamma, delta, epsilon and the minor histocompatibility molecule H60 and has the ability to costimulate multiple NK activation receptors, through the DAP12/DAP10 adaptor molecules. NKG2D is expressed by all spleen and liver NK cells, NK1.1⁺ thymocytes, in vitro activated LAK cells, and a subset of splenic NKT cells.

Applications Reported: This CX5 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This CX5 antibody has been tested by flow cytometric analysis of mouse splenocytes. This may be used at less than or equal to 1.0 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 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.

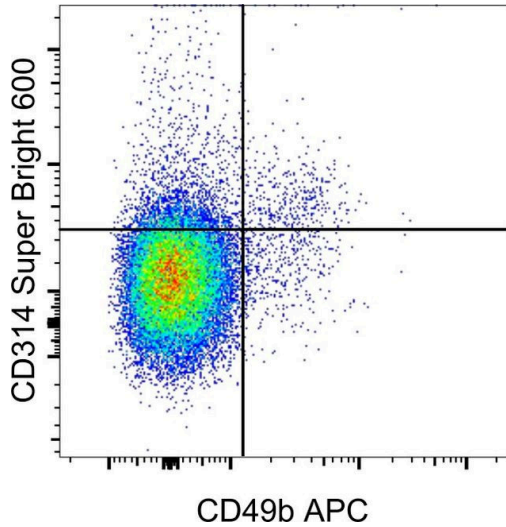
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 μ L of cell sample plus 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4 degrees 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 CD314 (NKG2D) Monoclonal Antibody (CX5), Super Bright™ 600, eBioscience™



CD314 (NKG2D) Antibody (63-5882-82) in Flow

C57BL/6 mouse splenocytes were stained with CD49b Monoclonal Antibody, FITC (Product # 11-5971) and 0.5 μ g of CD314 (NKG2D) Monoclonal Antibody, Super Bright 600. Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

Flow Cytometry (3)

Frontiers in immunology

Expansion of an Unusual Virtual Memory CD8⁺ Subpopulation Bearing V3.2 TCR in Themis-Deficient Mice.

"Published figure using CD314 (NKG2D) monoclonal antibody (Product # 63-5882-82) in Flow Cytometry"

Authors: Prasad M, Wojciech L, Brzostek J, Hu J, Chua YL, Tung DWH, Yap J, Rybakin V, Gascoigne NRJ

Year
2021

World journal of gastroenterology

Fasudil prevents liver fibrosis *via* activating natural killer cells and suppressing hepatic stellate cells.

"Published figure using CD314 (NKG2D) monoclonal antibody (Product # 63-5882-82) in Flow Cytometry"

Authors: Han QJ, Mu YL, Zhao HJ, Zhao RR, Guo QJ, Su YH, Zhang J

Year
2021

[View more Flow references on thermofisher.com](#)

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