

CD73 Monoclonal Antibody (eBioTY/11.8 (TY/11.8)), Super Bright™ 600, eBioscience™

Product Details	
Size	25 µg
Host/Isotype	Rat / IgG1
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), Super Bright™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioTY/11.8 (TY/11.8)
Conjugate	Super Bright™ 600
Excitation/Emission Max	414/601 nm
Form	Liquid
Concentration	0.2 mg/mL
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2762770

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	7 Publications

Product Specific Information

Description: eBioTY/11.8 recognizes the with CD73 a 69-kDa GPI-anchored cell-surface protein with ecto-5'-nucleotidase activity. Expression on myeloid cells (CD11b) is restricted to the bone marrow. In human CD73 can be induced to secrete a soluble form with IL-2 suggesting a role in mediating activation signals. Differences between human and mouse CD73 have been reported. BALB/c mice have more CD4+CD73+ than CD8+CD73+ while the reciprocal is documented in humans.

CD73 is expressed on a subset of lymphocytes and increases during lymphocyte maturation. Recently it has been found that memory CD4 T cells express and are similar to the uncommitted primed precursor helper cells (Thpp) that can differentiate into Th1 or Th2 cells. Furthermore CD73 has been found on regulatory T cells.

Applications Reported: This eBioTY/11.8 (TY/11.8) antibody has been reported for use in flow cytometric analysis.

Applications Tested: This eBioTY/11.8 (TY/11.8) antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.25 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.

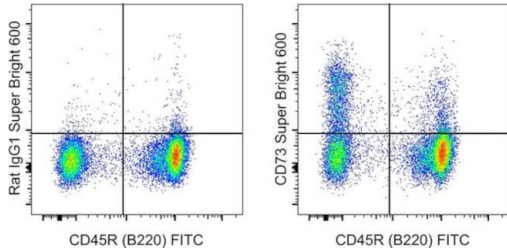
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-54) 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 CD73 Monoclonal Antibody (eBioTY/11.8 (TY/11.8)), Super Bright™ 600, eBioscience™



CD73 Antibody (63-0731-80) in Flow

BALB/c mouse splenocytes were stained with CD45R (B220) Monoclonal Antibody, FITC (Product # 11-0452-82) and 0.125 µg of Rat IgG1 kappa Isotype Control, Super Bright 600 (Product # 63-4301-82) (left) or 0.125 µg of CD73 Monoclonal Antibody, Super Bright 600 (right). Cells in the lymphocyte gate were used for analysis.

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7 References

Flow Cytometry (7)

BMC musculoskeletal disorders

Age-related trabecular bone loss is associated with a decline in serum Galectin-1 level.

"Published figure using CD73 monoclonal antibody (Product # 63-0731-82) in Flow Cytometry"

Authors: Xu W, Ni C, Wang Y, Zheng G, Zhang J, Xu Y

Year
2021

Aging

Transplantation of bone marrow-derived mesenchymal stem cells with silencing of microRNA-138 relieves pelvic organ prolapse through the FBLN5/IL-1/elastic pathway.

"Published figure using CD73 monoclonal antibody (Product # 63-0731-82) in Flow Cytometry"

Authors: Zhao B, Sun Q, Fan Y, Hu X, Li L, Wang J, Cui S

Year
2021

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