

# CD73 Monoclonal Antibody (eBioTY/11.8 (TY/11.8)), Super Bright™ 702, eBioscience™

| Product Details             |   |
|-----------------------------|---|
| Size                        | 100 µg  |
| Species Reactivity          | Mouse   |
| Host/Isotype                | Rat / IgG1  |
| Recommended Isotype Control | Rat IgG1 kappa Isotype Control (eBRG1), Super Bright™ 702, eBioscience™ |
| Class                       | Monoclonal  |
| Type                        | Antibody  |
| Clone                       | eBioTY/11.8 (TY/11.8)   |
| Conjugate                   | Super Bright™ 702   |
| Excitation/Emission Max     | 413/702 nm  |
| 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_2762796  |

| Applications          | Tested Dilution | Publications   |
|-----------------------|-----------------|----------------|
| Flow Cytometry (Flow) | 0.5 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 0.5 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 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Super Bright 702 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 702 nm. We recommend using a 710/50 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.

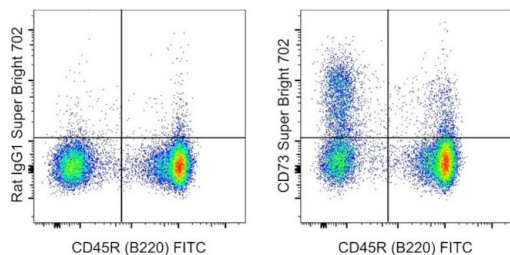
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100  $\mu$ L of cell sample + 100  $\mu$ L 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: 702 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™ 702, eBioscience™



### CD73 Antibody (67-0731-82) in Flow

BALB/c mouse splenocytes were stained with CD45R (B220) Monoclonal Antibody, FITC (Product # 11-0452-82) and 0.25  $\mu$ g of Rat IgG1 kappa Isotype Control, Super Bright 702 (Product # 67-4301-82) (left) or 0.125  $\mu$ g of CD73 Monoclonal Antibody, Super Bright 702 (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 # 67-0731-82) 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/elastin pathway.

"Published figure using CD73 monoclonal antibody (Product # 67-0731-82) in Flow Cytometry"

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

Year  
2021

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