CD73 Monoclonal Antibody (eBioTY/11.8 (TY/11.8)), PerCP-eFluor™ 710, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG1
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), PerCP-eFluor™ 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioTY/11.8 (TY/11.8)
Conjugate	PerCP-eFluor™ 710
Excitation/Emission Max	482/708 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10853356

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	14 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 0.125 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

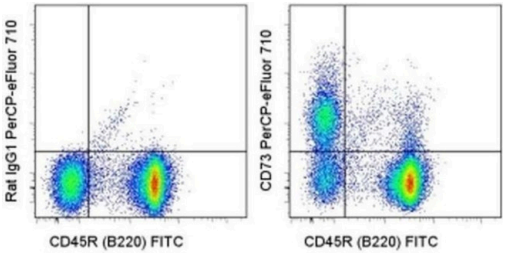
PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm); it can be used in place of PerCP-Cyanine5.5. We recommend using a 710/50 bandpass filter, however, the 695/40 bandpass filter is an acceptable alternative. Please make sure that your instrument is capable of detecting this fluorochrome.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 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: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD73 Monoclonal Antibody (eBioTY/11.8 (TY/11.8)), PerCP-eFluor™ 710, eBioscience™



CD73 Antibody (46-0731-82) in Flow
Staining of C57Bl/6 splenocytes with Anti-Human/Mouse CD45R (B220) FITC (Product # 11-0452-82) and 0.06 µg of Rat IgG1 K Isotype Control PerCP-eFluor® 710 (Product # 46-4301-80) (left) or 0.06 µg of Anti-Mouse CD73 PerCP-eFluor® 710 (right). Total viable cells were used for analysis.

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14 References

Flow Cytometry (14)

Frontiers in endocrinology

Preventing type 1 diabetes in late-stage pre-diabetic NOD mice with insulin: A central role for alum as adjuvant.

"46-0731-82 was used in Flow cytometry/Cell sorting to support the use of alum as adjuvant to optimise the efficacy of antigen-specific immunotherapy in future trials."

Authors: Martens PJ,Ellis D,Bruggeman Y,Viaene M,Laureys J,Teyton L,Mathieu C,Gysemans C

Year
2022

Species
Mouse

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 # 46-0731-82) in Flow Cytometry"

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

Year
2021

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