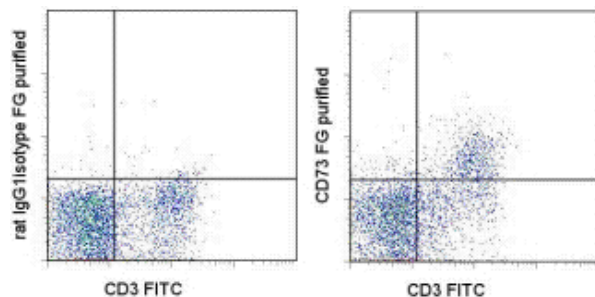


## Anti-Mouse CD73 Functional Grade Purified

**Catalog Number:** 16-0731

**Also Known As:** Ecto-5'-nucleotidase, NT5E

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Staining of BALB/c splenocytes with Anti-Mouse CD3e FITC (cat. 11-0031) and 0.25 ug of Rat IgG1 K Isotype Control Functional Grade Purified (cat. 16-4301) (left) or 0.25 ug of Anti-Mouse CD73 Functional Grade Purified (right) followed by Anti-Rat IgG PE (cat. 12-4822). Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Mouse CD73 Functional Grade Purified

**REF** **Catalog Number:** 16-0731

**Clone:** eBioTY/11.8 (TY/11.8)

**Concentration:** 1 mg/mL

**Host/Isotype:** Rat IgG1

**Handling Conditions:** Use in sterile environment.

**Endotoxin Level:** Less than 0.001 ng/ug antibody, as determined by the LAL assay.

**Formulation:** aqueous buffer, no sodium azide



**Temperature Limitation:** Store at 2-8°C.



**Batch Code:** Refer to Vial



**Use By:** Refer to Vial

### 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.

### References

Eliopoulos N, Stagg J, Lejeune L, Pommey S, Galipeau J. Allogeneic marrow stromal cells are immune rejected by MHC class I- and class II-mismatched recipient mice. *Blood*. 2005 Dec 15;106(13):4057-65.

Kobie JJ, Shah PR, Yang L, Rebhahn JA, Fowell DJ, Mosmann TR. T Regulatory and Primed Uncommitted CD4 T Cells Express CD73, Which Suppresses Effector CD4 T Cells by Converting 5'-Adenosine Monophosphate to Adenosine. *J Immunol*. 2006 Nov 15;177(10):6780-6

Yamashita Y, Hooker SW, Jiang H, Laurent AB, Resta R, Khare K, Coe A, Kincade PW, Thompson LF. CD73 expression and fyn-dependent signaling on murine lymphocytes. *Eur J Immunol*. 1998 Oct;28(10):2981-90.

Yang L, Kobie JJ, Mosmann TR. CD73 and Ly-6A/E distinguish in vivo primed but uncommitted mouse CD4 T cells from type 1 or type 2 effector cells. *J Immunol*. 2005 Nov 15;175(10):6458-64.

**Related Products**

11-0031 Anti-Mouse CD3e FITC (145-2C11)

12-4822 F(ab')<sub>2</sub> Anti-Rat IgG PE (polyclonal)

16-4301 Rat IgG1 K Isotype Control Functional Grade Purified

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