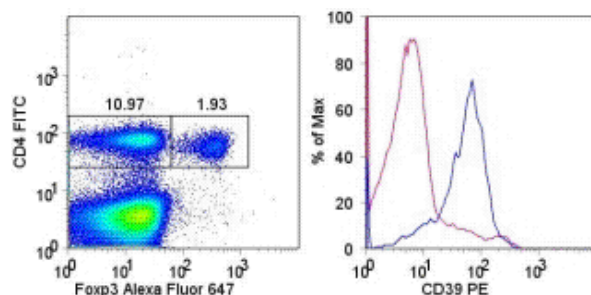


## Anti-Mouse CD39 PE

**Catalog Number:** 12-0391

**Also Known As:** Ectonucleoside Triphosphate Diphosphohydrolase 1, Entpd1

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



Staining of mouse splenocytes with 0.125 µg Anti-Mouse CD39 PE and Anti-Mouse CD4 FITC (cat. 11-0041), followed by fixation and permeabilization with the Fcγ3 Staining Buffers (cat. 00-5523), and intracellular staining with Anti-Mouse Fcγ3 Alexa Fluor® 647. The histogram (right) demonstrates staining of Anti-Mouse CD39 PE on CD4+Fcγ3- cells (purple histogram) and CD4+Fcγ3+ cells (blue histogram) as gated in the dot plot (left).

### Product Information

**Contents:** Anti-Mouse CD39 PE


**REF** **Catalog Number:** 12-0391

**Clone:** 24DMS1

**Concentration:** 0.2 mg/mL


**Host/Isotype:** Rat IgG2b, kappa

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 **Temperature Limitation:** Store at 2-8°C. Do not freeze. Light sensitive material.

**LOT** **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

 **Contains sodium azide**

### Description

The 24DMS1 monoclonal antibody reacts with mouse CD39, also known as NTPDase1. E-NTPDases are enzymes that convert nucleoside tri- and diphosphates (NTPDs) into nucleoside monophosphate (NMP), thereby removing toxic extracellular ATP and ADP. CD39 is the dominant member of this family in the immune system and is involved in suppression of inflammation and control of platelet activation. CD39 can impact expression of CD73, another E-NTPase. Together, these molecules influence inflammation responses. CD39 is expressed on B cells, Langerhans cells and most monocytes. In addition, CD39 is found on a subset of CD4+ T cells that are mostly CD25+FoxP3+ T reg cells. T reg cells from CD39-null mice showed impaired suppressive properties *in vitro* and *in vivo*.

### Applications Reported

This 24DMS1 antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This 24DMS1 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 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

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#### **Related Products**

00-5523 Foxp3 / Transcription Factor Staining Buffer Set

11-0041 Anti-Mouse CD4 FITC (GK1.5)

12-4031 Rat IgG2b K Isotype Control PE

51-5773 Anti-Mouse/Rat Foxp3 Alexa Fluor® 647 (FJK-16s)

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