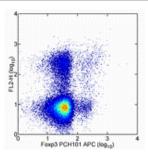


# **Anti-Human CD39 PE**

Catalog Number: 12-0399

Also Known As: Ectonucleoside Triphosphate Diphosphohydrolase 1, Entpd1 RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of normal human peripheral blood cells with Anti-Human CD39 PE, followed by fixation and permeabilization with the Foxp3 Staining Buffers (cat. 00-5523), and intracellular staining with Anti-Human Foxp3 APC (cat. 17-4776). Cells in the lymphocyte gate were used for analysis.

#### **Product Information**

Contents: Anti-Human CD39 PE REF Catalog Number: 12-0399

Clone: eBioA1 (A1)

**Concentration:** 5 uL (0.125 ug)/test **Host/Isotype:** Mouse IgG1, 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.
■ Batch Code: Refer to Vial
☑ Use By: Refer to Vial

Caution, contains Azide

## Description

The eBioA1 monoclonal antibody reacts with human CD39 also known as ectonucleoside triphosphate diphosphohydrolase 1 (ENTPD1) or NTPDase. CD39 is an integral membrane protein with two transmembrane domains and exists as a homotetramer. It is the most prominent ectoenzyme of the immune system. The function of CD39 is to effectively remove toxic extracellular ATP by converting it to ADP or AMP. CD39 is thought to work together with CD73 to hydrolyze ATP and has been well characterized on Langerhans cells. Expression of CD39 was originally identified on activated lymphocytes. Expression is also found on a subset of T cells, B cells and dendritic cells as well as weak staining on monocytes and granulocytes.

Recently, CD39 and CD73 have been found on regulatory T cells (Treg). Expression of CD39 on Treg may facilitate their entry into inflamed areas where high levels of ATP are present. Expression of CD39 on Foxp3+CD4+ cells ranges from 25-45%.

#### **Applications Reported**

This eBioA1 (A1) antibody has been reported for use in flow cytometric analysis.

### **Applications Tested**

This eBioA1 (A1) antibody has been pre-titrated and tested flow cytometric analysis of normal human peripheral blood cells. his can be used at 5  $\mu$ L (0.125  $\mu$ g) per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

#### References

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Stockl J., O. Majdic, G. Fischer, D. Maurer, W. Knapp. 2001. Monomorphic Molecules Function as Additional Recognition Structures on Haptenated Target Cells for HLA-A1-Restricted, Hapten-Specific CTL. J. Immunol. 167L:2724-2733

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# **Related Products**

00-5523 Foxp3 / Transcription Factor Staining Buffer Set 12-4714 Mouse IgG1 K Isotype Control PE (P3.6.2.1) 17-4776 Anti-Human Foxp3 APC (PCH101)

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