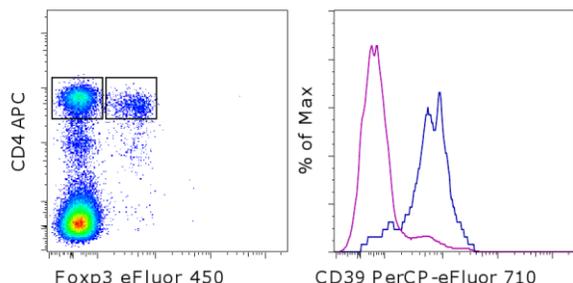


Anti-Mouse CD39 PerCP-eFluor[®] 710

Catalog Number: 46-0391

Also known as: Ectonucleoside Triphosphate Diphosphohydrolase 1, Entpd1

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



Staining of mouse splenocytes with 0.25 ug Anti-Mouse CD39 PE and Anti-Mouse CD4 FITC (cat. 11-0041), followed by fixation and permeabilization with the Fxp3/Transcription Factor Buffer Set (cat. 00-5523) and intracellular staining with Anti-Mouse Fxp3 eFluor[®] 450 (cat. 48-5773). The histogram (right) demonstrates staining of Anti-Mouse CD39 PE on CD4+Fxp3⁻ cells (purple histogram) and CD4+Fxp3⁺ cells (blue histogram) as gated in the dot plot (left).

Product Information

Contents: Anti-Mouse CD39 PerCP-eFluor[®] 710

REF **Catalog Number:** 46-0391

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.

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 0.5 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

PerCP-eFluor[®] 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor[®] 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL 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.

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Related Products

00-5523 Foxp3 / Transcription Factor Staining Buffer Set

17-0041 Anti-Mouse CD4 APC (GK1.5)

48-5773 Anti-Mouse/Rat Foxp3 eFluor[®] 450 (FJK-16s)

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