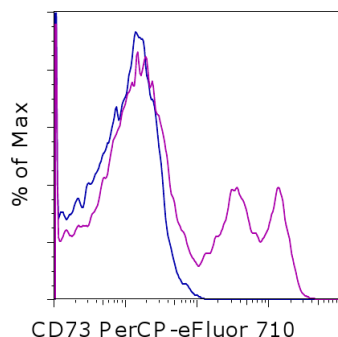


Anti-Human CD73 PerCP-eFluor® 710

Catalog Number: 46-0739

Also known as: Ecto-5'-nucleotidase, NT5E

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



Staining of normal human peripheral blood cells with Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (cat. 46-4714) (blue histogram) or Anti-Human CD73 PerCP-eFluor® 710 (purple histogram). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD73 PerCP-eFluor® 710

REF **Catalog Number:** 46-0739

Clone: AD2

Concentration: 5 uL (0.06 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

Contains sodium azide

Description

This AD2 monoclonal antibody reacts with human CD73, a 5'-ectonucleotidase that converts 5'-adenosine monophosphate to adenosine. CD73 is expressed on the surface of endothelial cells, as well as B and T cells, including some CD4+Foxp3+ regulatory T cells. Adenosine production by these cells has been linked to the inhibition of CD4 T cell effector functions such as proliferation and cytokine secretion.

Applications Reported

This AD2 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This AD2 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.06 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.

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.

References

Deaglio S, Dwyer KM, Gao W, Friedman D, Usheva A, Erat A, Chen JF, Enyoloji K, Linden J, Oukka M, Kuchroo VK, Strom TB, Robson SC. Adenosine generation catalyzed by CD39 and CD73 expressed on regulatory T cells

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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.

Nakamura T, Kubagawa H, Ohno T, Cooper MD. Characterization of an IgM Fc-binding receptor on human T cells. J Immunol. 1993 Dec 15;151(12):6933-41. (**AD2**, FC, Pubmed)

Related Products

46-4714 Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (P3.6.2.8.1)