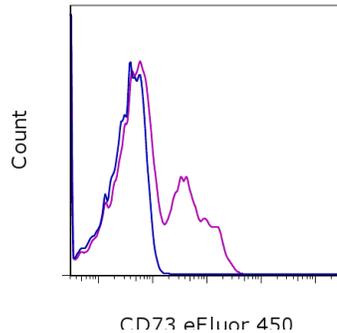


Anti-Human CD73 eFluor[®] 450

Catalog Number: 48-0739

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 eFluor[®] 450 (cat. 48-4714) (blue histogram) or Anti-Human CD73 eFluor[®] 450 (purple histogram). Cells in the lymphocyte gate were used for analysis.

Product Information



Contents: Anti-Human CD73 eFluor[®] 450

Catalog Number: 48-0739

Clone: AD2

Concentration: 5 μ L (0.25 μ g)/test

Host/Isotype: Mouse IgG1, kappa



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



Batch Code: Refer to vial



Use By: Refer to vial

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 μ L (0.25 μ g) per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

eFluor[®] 450 is a replacement for Pacific Blue[®]. eFluor[®] 450 emits at 456 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

References

Deaglio S, Dwyer KM, Gao W, Friedman D, Usheva A, Erat A, Chen JF, Enyoji K, Linden J, Oukka M, Kuchroo VK, Strom TB, Robson SC. Adenosine generation catalyzed by CD39 and CD73 expressed on regulatory T cells mediates immune suppression. *J Exp Med.* 2007 Jun 11;204(6):1257-65.

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.

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)

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Related Products

00-4222 Flow Cytometry Staining Buffer

11-0399 Anti-Human CD39 FITC (eBioA1 (A1))

12-4776 Anti-Human Foxp3 PE (PCH101)

48-4714 Mouse IgG1 K Isotype Control eFluor[®] 450 (P3.6.2.8.1)

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