



Mouse anti-Human CD73, Purified mAb

E16HU073

Catalog Number: E16HU073-100 ,E16HU073-500

Amount: 100 Tests, 500 Tests

Form of Antibody: Phosphate-buffered solution, pH 7.4, containing 0.09% sodium azide

Storage/Stability: Store at 4°C.DO NOT FREEZE. LIGHT SENSITIVE MATERIAL.

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.

Isotype: Mouse IgG1

Clone : AD2

Reactivity: Human,Not yet tested in other species.

Applications: FCM IF

Experimental Methods:

- 1.Take 100 μ l peripheral blood anticoagulated by EDTA and add to the bottom of 5ml tube;
- 2.Add appropriate amount of antibody to the bottom of flow tube mixing with the whole blood, incubate for 30 minutes at room temperature;
- 3.Add 2 ml $1 \times$ RBC lysis buffer, incubate for 10 minutes after mixing, dissolve red blood cells (recommended: RBC lysing Solution $10 \times$, Cat.: FXP001);
- 4.Sample tube is set to 1000 rpm centrifugation for 5 minutes, discard the supernatant;
- 5.Add 2 ml PBS wash buffer to resuspend the cells, then 1000 rpm centrifugation for 5 minutes, discard the supernatant;
- 6.Add appropriate amount of fluorescent-labeled anti-mouse IgGs and incubate for 20 minutes away from light at room temperature.
- 7.Repeat step 5.
- 8.Add 0.5 ml PBS wash buffer to resuspend the cells and detect by flow cytometry (sample should be determined on the day on the machine and can also be added fixation overnight at 4 °C then measured).

[PBS wash buffer: PBS +1% FBS +0.1% NaN₃; Cat.: FXP005]

[Cell fixation: 2% formaldehyde solution]

Notices:

- 1.Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- 2.Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing;
- 3.If the sample can not be timely analysis, please fixed;
- 4.For research use only, not for diagnostic or therapeutic use.

References:

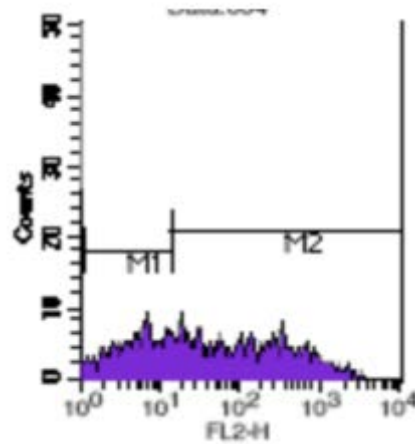
1. Deaglio S, Dwyer KM, Gao W, Friedman D, Usheva A, Erat A, Chen JF, Enjyoji K, Linden J, Oukka M, Kuchroo VK, Strom TB, Robson SC. Adenosine generation catalyzed by CD39 and CD73 expressed on regulatory T cells mediates immune suppression. J Exp Med. 2007 Jun 11;204(6):1257-65.
- 2.Kobie JJ, Shah PR, 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.
- 3.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:

E16HF073	Mouse Anti-Human CD73, FITC Conjugated mAb	FCM	IF
E16HP073	Mouse Anti-Human CD73, PE Conjugated mAb	FCM	IF

For Research Use Only

Profile of peripheral blood lymphocytes analyzed by flow cytometry, PE labeled goat anti-mouse IgG as secondary antibody staining.



Human peripheral blood lymphocytes stained with Purified CD73
mAb ,followed by anti-mouse IgGs-PE