



Mouse Anti-Human CD74, FITC Conjugated mAb

E16HF074

<u>Catalog No.</u>	<u>Size</u>
E16HF074-100	100 Tests
E16HF074-050	50 Tests

Description:

The 4ALN2 monoclonal antibody recognizes human CD74, also known as the MHC Class II-associated invariant chain. A 33-43 kDa nonpolymorphic type II membrane protein, CD74 is highly expressed on B cells and subsets of activated T cells, Langerhans cells, dendritic cells, and epithelial cells. Monocytes and macrophages also express CD74, but at lower levels. CD74 acts as a chaperone of MHC Class II (HLA-DR) proteins, promoting their translocation from the ER to endocytic compartments during antigen presentation. Activation of NF κ B and ERK has been shown following CD74 interaction with CD44 and binding to the proinflammatory cytokine macrophage migration-inhibitory factor (MIF). CD74 also plays a role in the maturation of follicular B-cells and accumulation of marginal zone B-cells. CD74 has also been demonstrated to interact with CXCR2 and CXCR4.

Storage Condition:	Store at 4°C.DO NOT FREEZE. LIGHT SENSITIVE MATERIAL.
Clone:	4ALN2
Isotype:	Mouse IgG1
Vol.per.Test:	10 μ l/Test
Storage Buffer:	Phosphate-buffered solution, pH 7.4, containing 0.09% sodium azide and 0.2% (w/v) BSA
Applications:	FC IHC IP IF WB

Experimental Methods:

1. Take 100 μ l peripheral blood anticoagulated by EDTA and add to the bottom of 5ml tube;
2. Add 10 μ l labeled antibody to the bottom of flow tube mixing with the whole blood, incubate for 20 minutes at room temperature away from light;
3. Add 2 ml 1 \times RBC lysis buffer, incubate for 10 minutes away from light 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 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).

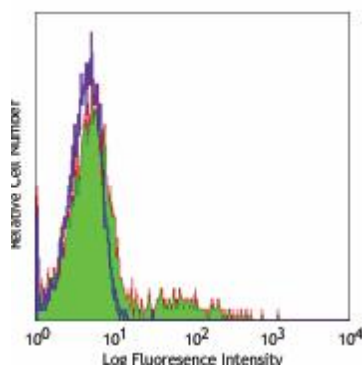
[PBS wash buffer: PBS +1% FBS +0.1% NaN₃; Cat.: FXP005]

[Cell fixation: 2% formaldehyde solution]

For Research Use Only

Notices:

1. This reagent has been pre-diluted for use at the recommended Volume per Test.
We typically use 1×10^6 cells in a 100 μ l experimental sample (a test);
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. **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;
4. If the sample can not be timely analysis, please fixed;
5. **For research use only, not for diagnostic or therapeutic use.**

Profile of peripheral blood lymphocytes analyzed by flow cytometry

Staining of normal human peripheral blood cells with 4ALN2-FITC

Related products:

Catalog No.	Product name	Applications
E16HU074	Mouse Anti-Human CD74, Purified mAb	FC IHC IP IF WB
E16HP074	Mouse Anti-Human CD74, PE Conjugated mAb	FC IHC IP IF WB

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