Mouse anti-Human CD13, FITC Conjugated mAb

E16HF013

Catalog No.	Size
E16HF013-100	100 Tests
E16HF013-050	50 Tests

Description:

4AB-F10 reacts with CD13, 150 kDa aminopeptidase N (APN). CD13 is expressed on the surface of early committed progenitors and mature granulocytes and monocytes (GM-CFU), but not on lymphocytes, platelets or erythrocytes. It is also expressed on endothelial cells, epithelial cells, bone marrow stroma cells, and osteoclasts, as well as a small proportion of LGL lymphocytes. CD13 acts as a receptor for specific strains of RNA viruses and plays an important function in the interaction between human cytomegalovirus (CMV) and its target cells.

Storage Condition:	Store at 4°C. DO NOT FREEZE. LIGHT SENSITIVE MATERIAL.
Clone:	4AB-F10
Isotype:	Mouse IgG1
Reactivity:	Human, Not yet tested in other species.
Vol.per.Test:	10μl/Test
Storage Buffer:	Phosphate-buffered solution, pH 7.4, containing 0.09% sodium azide and 0.2% (w/v) BSA
Applications:	FC IP WB

Experimental Methods:

1. Take 100μl peripheral blood anticoagulated by EDTA and add to the bottom of 5ml tube;
2. Add 10μl 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 ml1×RBC lysis buffer, incubate for 10 minutes away from light after mixing, dissolve red blood cells (recommended: RBC lysing Solution 10×,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, then1000 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 ℃ then measured).
   [PBS wash buffer: PBS +1% FBS +0.1% NaN3; Cat.: FXP005]
   [Cell fixation: 2% formaldehyde solution]

Notices:

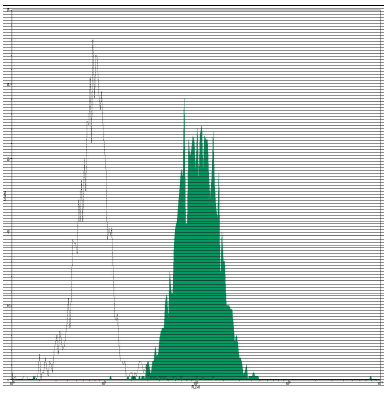
1. This reagent has been pre-diluted for use at the recommended Volume per Test.

For Research Use Only

We typically use 1 X 10^6 cells in a 100μl 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 granulocytes analyzed by flow cytometry



Human peripheral blood granulocytes analyzed with FITC CD13 mAb

References

1. Look AT et al. (1989) J.Clin.Invest. 83:1299-1307.
2. Favaloro, E et al. (1990) Brit. J. Heamatol. 74:385.
3. Barclay, N et al. (1993) The leucocyte Antigen Factsbook, CD13 section , Academic Press Inc. San Diego, CA.
4. Riemann D et al. (1997) J. Immunol. 158:3425-32.

Related products：

Catalog No.	Product name	Applications
E16HU013	Mouse Anti-Human CD13, Purified mAb	FC IP WB
E16HP013	Mouse Anti-Human CD13, PE Conjugated mAb	FC IP WB