Mouse anti-Human CD25, FITC Conjugated mAb

E16HF0251

Catalog No.	Size
E16HF0251-100	100 Tests
E16HF0251-050	50 Tests

Description:

4A7G7B6 reacts with CD25 antigen, a chain of low-affinity interleukin-2 receptor (IL-2Ra), which is expressed on activated cells including T, B, NK cells and monocytes. The antigen also prsent on subset of thymocytes, HTLV-1 transformed T cell lines, EBV transformed B cells, myeloid precursors and oligodendrocytes. The high affinity IL-2 receptor is formed by the noncovalent association of of a (55 kDa, CD25), b (75 kDa , CD122), and g subunit (70 kDa, CD132). The interaction of IL-2 with IL-2R induces the activation and proliferation of T, B , NK cells and macrophages. CD4+/CD25+ cells might directly regulate the function of responsive T cells.

Storage Condition:	Store at 4°C.DO NOT FREEZE. LIGHT SENSITIVE MATERIAL.
Clone:	4A7G7B6
Isotype:	Mouse IgG2a
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:	FCM IF

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:

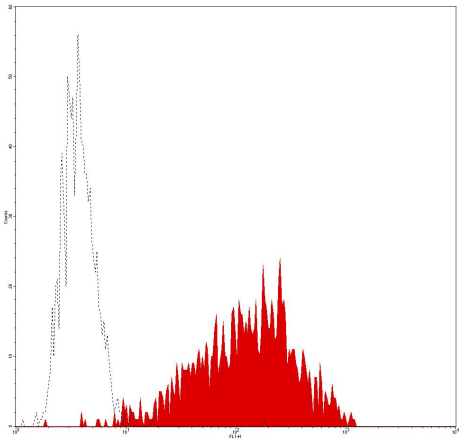
1. This reagent has been pre-diluted for use at the recommended Volume per Test.

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 PHA-activated lymphocytes analyzed by flow cytometry



PHA-activated lymphocytes analyzed with FITC CD25 mAb

References

1. Kishimoto, T . et al. (1998). Leucocyte Typing VI: White Cell Differentiation Antigens. Garland Publishing, Inc. London.
2. Robb RJ. et al. (1984). J. Exp. Med 160:1126.
3. Greene WC and Leonard WJ et al. (1986). Annu. Rev. Immunol. 4:69.
4. Ng WFet al. (2001). Leukemia 98: 2736.

Related products：

Catalog No.	Product name	Applications
E16HU0251	Mouse Anti-Human CD25, Purified mAb	FCM IF
E16HP0251	Mouse Anti-Human CD25, PE Conjugated mAb	FCM IF
E16HC0251	Mouse Anti-Human CD25，PE-Cy5 Conjugated mAb	FCM IF
E16HB0251	Mouse Anti-Human CD25, Biotin Conjugated mAb	FCM IF