



Mouse Anti-Human CD90, PE Conjugated mAb

E16HP090

Catalog Number: E16HP090-050 , E16HP090-100

Amount: 50 Tests, 100 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: The 4AeBio5E10 monoclonal antibody reacts with human CD90, also known as Thy-1 (thymus cell antigen-1). CD90 is a 25-35 kD receptor expressed on thymocytes, CD34+ prothymocytes, hematopoietic stem cells, neurons, a small subset of human fetal liver cells, cord blood cells, and bone marrow cells. CD90 is expressed on a subset of immature, CD34+ cells and a distinct subset of mature CD34- cells that are CD3+CD4+. The CD90+CD34+ population is enriched for cells capable of long-term culture. CD90 is involved in regulation of adhesion and signal transduction by T cells.

Isotype: Mouse IgG1

Clone : 4AeBio5E10

Applications: FCM IF

Experimental Methods: 1. Take 100 μ l 10e6 HEL Cells 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. Sample tube is set to 1000 rpm centrifugation for 5 minutes, discard the supernatant;

4. Add 2 ml PBS wash buffer to resuspend the cells, then 1000 rpm centrifugation for 5 minutes, discard the supernatant;

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

We typically use 1 X 10⁶ 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.

References: 1. Craig W, Kay R, Cutler RL, Lansdorp PM. Expression of Thy-1 on human hematopoietic progenitor cells. J Exp Med. 1993 May 1;177(5):1331-42. (5E10, mAb development, FC, WB, IP, PubMed)

2. Mayani H, Lansdorp PM. Thy-1 expression is linked to functional properties of primitive hematopoietic progenitor cells from human umbilical cord blood. Blood. 1994 May 1;83(9):2410-7. (5E10, FC, PubMed)

3. Hung JT, Liao JH, Lin YC, Chang HY, Wu SF, Chang TH, Kung JT, Hsieh SL, McDevitt H, Sytwu HK. Immunopathogenic role of TH1 cells in autoimmune diabetes: evidence from a T1 and T2 doubly transgenic non-obese diabetic mouse model. J Autoimmun. 2005 Nov;25(3):181-92. (5E10, IHC, FC, PubMed)

Related products: E16HU090 Mouse Anti-Human CD90, Purified mAb FCM IF

E16HF090 Mouse Anti-Human CD90, FITC Conjugated mAb FCM IF

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