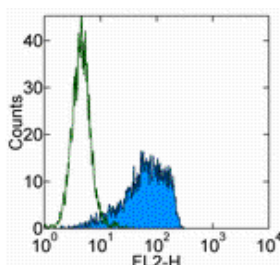


## Anti-Human CD90 (Thy-1) PE

Catalog Number: 12-0909

Also Known As: Thy1

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of human erythroleukemia (HEL) cells with Mouse IgG1 kappa Isotype Control PE (cat. 12-4714) (open histogram) or Anti-Human CD90 (Thy-1) PE (filled histogram). Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Human CD90 (Thy-1) PE


**REF** **Catalog Number:** 12-0909

**Clone:** eBio5E10 (5E10)


**Concentration:** 5  $\mu$ L (0.25  $\mu$ g)/test


**Host/Isotype:** Mouse IgG1, kappa

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 **Temperature Limitation:** Store at 2-8°C. Do not freeze. Light sensitive material.

**LOT** **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

 **Caution, contains Azide**

### Description

The eBio5E10 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.

### Applications Reported

This eBio5E10 (5E10) antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This eBio5E10 (5E10) antibody has been pre-titrated and tested by flow cytometric analysis of human erythroleukemia (HEL) cells. This can be used at 5  $\mu$ L (0.25  $\mu$ g) per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test.

### References

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)

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)

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

12-4714 Mouse IgG1 K Isotype Control PE (P3.6.2.1)

