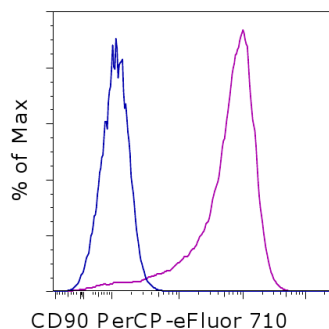


## Anti-Human CD90 (Thy-1) PerCP-eFluor® 710

**Catalog Number:** 46-0909

**Also known as:** Thy1

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



Staining of the HEL cell line with Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (cat. 46-4714) (blue histogram) or Anti-Human CD90 (Thy-1) PerCP-eFluor® 710 (purple histogram). Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Human CD90 (Thy-1) PerCP-eFluor® 710



**Catalog Number:** 46-0909

**Clone:** eBio5E10 (5E10)

**Concentration:** 5 uL (0.125 ug)/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.



**Batch Code:** Refer to vial



**Use By:** Refer to vial

**Contains sodium azide**

### Description

The eBio5E10 monoclonal antibody reacts with human CD90, also known as Thy-1 (thymus cell antigen-1). CD90 is a 25-35 kDa 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 the HEL cell line. This can be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>6</sup> cells/test.

**PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.**

**Fixation:** Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

### References

Hung JT, Liao JH, Lin YC, Chang HY, Wu SF, Chang TH, Kung JT, Hsieh SL, McDevitt H, Sytwu HK.

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## **Anti-Human CD90 (Thy-1) PerCP-eFluor® 710**

**Catalog Number:** 46-0909

**Also known as:** Thy1

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

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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)

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)

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)

### **Related Products**

46-4714 Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (P3.6.2.8.1)