

## PE anti-human CD90 (Thy1)

**Catalog # / Size:** 328109 / 25 tests  
328110 / 100 tests

**Clone:** 5E10

**Isotype:** Mouse IgG1,  $\kappa$

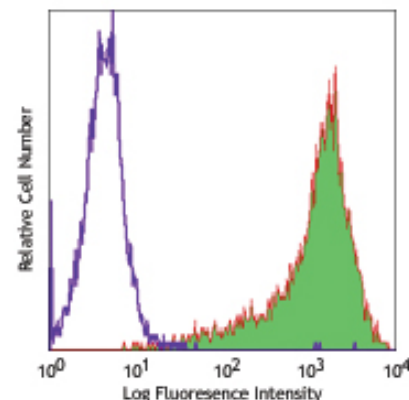
**Immunogen:** HEL cells

**Reactivity:** Human, **Cross-Reactivity:** Baboon, Cynomolgus, Rhesus, Pigtailed Macaque, Pig<sup>2</sup>

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human erythroleukemic cell line HEL stained with 5E10 PE

## Applications:

**Applications:** FC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20  $\mu$ l to 5  $\mu$ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100  $\mu$ l staining volume or per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at [www.biolegend.com/testsize](http://www.biolegend.com/testsize) regarding the test size change.

**Application Notes:** Additional reported (for the relevant formats) applications include: immunohistochemical staining of acetone-fixed frozen sections and immunoprecipitation<sup>1</sup>.

**Application References:**

1. Craig W, *et al.* 1993. *J. Exp. Med.* 177:1331.
2. Gundlach CW 4th, *et al.* 2011. *Bioconjug. Chem.* 22:1706.
3. Adulter-Liever S, *et al.* 2013. *J. Cardiovasc Pharmacol Ther.* 18:78. PubMed.

**Description:** CD90 is a 25-35 kD GPI-anchored protein, also known as Thy-1. It belongs to Ig superfamily. Human CD90 is expressed on neuronal cells, a subset of CD34<sup>+</sup> cells, a subset of fetal liver cells and fetal thymocytes, fibroblasts, activated endothelial cells, and some leukemia cell lines. CD34<sup>+</sup>CD90<sup>+</sup> cells are primitive hematopoietic stem cells. It has been reported that Thy-1 binds with  $\beta$ 2 and  $\beta$ 3 integrins and plays bimodal roles in the regulation of cell adhesion and neurite outgrowth, and inhibits hematopoietic stem cells proliferation and differentiation.

**Antigen References:**

1. McKenzie JL, *et al.* 1981. *J. Immunol.* 126:843.
2. Avalos AM, *et al.* 2002. *Biol. Res.* 35:231.
3. Wetzell A, *et al.* 2004. *J. Immunol.* 172:3850.

### Related Products:

<b>Product</b>	<b>Clone</b>	<b>Application</b>
Cell Staining Buffer		FC, ICC, ICFC
PE Mouse IgG1, $\kappa$ Isotype Ctrl (FC)	MOPC-21	FC
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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