

Product Data Sheet

Biotin anti-human CD90 (Thy1)

Catalog # / Size: 328106 / 100 µg

Clone: 5E10

Isotype: Mouse IgG1, κ

Immunogen: HEL cells

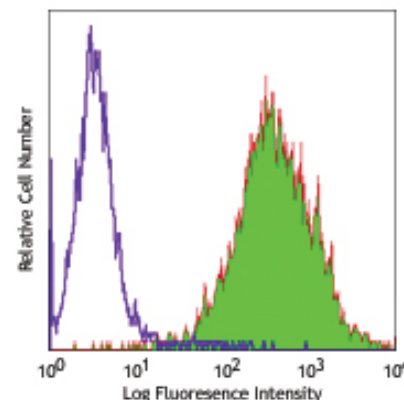
Reactivity: Human, **Cross-Reactivity:** Baboon, Cynomolgus, Rhesus, Pigtailed Macaque, Pig²

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

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. **Do not freeze.**



Human erythroleukemic cell line (HEL) stained with biotinylated 5E10, followed by Sav-PE

Applications:

Applications: FC - *Quality tested*
 IHC - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported (for the relevant formats) applications include: immunohistochemical staining of acetone-fixed frozen sections and immunoprecipitation¹.

Application References: 1. Craig W, *et al.* 1993. *J. Exp. Med.* 177:1331.
 2. Gundlach CW 4th, *et al.* 2011. *Bioconjug. Chem.* 22:1706.

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⁺ cells, a subset of fetal liver cells and fetal thymocytes, fibroblasts, activated endothelial cells, and some leukemia cell lines. CD34⁺CD90⁺ cells are primitive hematopoietic stem cells. It has been reported that Thy-1 binds with β2 and β3 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. Wetzel A, *et al.* 2004. *J. Immunol.* 172:3850.

Related Products:	Product	Clone	Application
	Biotin Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC
	APC Streptavidin		FC, ICFC
	APC/Cy7 Streptavidin		FC, ICFC
	PE Streptavidin		FC, ICFC
	PE/Cy5 Streptavidin		FC, ICFC
	PE/Cy7 Streptavidin		FC, ICFC
	Cell Staining Buffer		FC, ICC, ICFC
	Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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