Product Data Sheet

PE/Dazzle[™] 594 anti-human CD90 (Thy1)

Catalog # / Size:	2240665 / 25 tests 2240670 / 100 tests	A 🔺
Clone:	5E10	
Isotype:	Mouse IgG1, κ	· · · · · · · · · · · · · · · · · · ·
Immunogen:	HEL cells	
Reactivity:	Human	elative Cell Number
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions. The solution is free of unconjugated PE/Dazzle™ 594 and unconjugated antibody.	0 10 ² 10 ³ 10 ⁴ 10 ⁵ Log Fluorescence Intensity
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).	Human erythroleukemia cell line (HEL) was stained with CD90 (clone 5E10) PE/Dazzle [™] 594 (filled histogram) or mouse IgG1, κ PE/Dazzle [™] 594 isotype control (open histogram).
Concentration:	Lot-specific	

Applications:

Applications:	Flow Cytometry	
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.	
	* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.	
Application Notes:	Clone 5E10 recognizes an epitope on Thy-1 independent of its glycosylation, but is abolished under reducing conditions.4 Additional reported (for the relevant formats) applications include: immunohistochemical staining of acetone-fixed frozen sections, immunoprecipitation1, and immunofluorescence3.	
Application References:	 Craig W, et al. 1993. J. Exp. Med. 177:1331. (IP) Gundlach CW 4th, et al. 2011. Bioconjug. Chem. 22:1706. (Pig Reactivity) Touboul C, et al. 2013. J. Transl. Med. 11:28. (IF) Bradley JE, et al. 2013. Lab Invest. 93:365. (Epitope) Donnenberg VS, et al. 2010. Cytometry B. Clin. Cytom. 5:287. (IHC) 	
Description:	CD90 is a 25-35 kD GPI-anchored protein, also known as Thy-1. It belongs to the lg 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 β 2 and β 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, <i>et al.</i> 1981. <i>J. Immunol.</i> 126:843. 2. Avalos AM, <i>et al.</i> 2002. <i>Biol. Res.</i> 35:231.	

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3. Wetzel A, et al. 2004. J. Immunol. 172:3850.

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