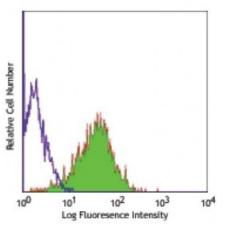
## **Product Data Sheet**

## Purified anti-human CD90 (Thy1)

Catalog # / Size:	2240510 / 100 μg 2240505 / 25 μg
Clone:	5E10
Isotype:	Mouse IgG1, к
Immunogen:	HEL cells
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.5



Human erythroleukemic cell line HEL stained with purified 5E10, followed by anti-mouse IgG FITC

## **Applications:**

Applications:	Other
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 $\leq 0.5$ microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
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:	<ol> <li>Craig W, <i>et al.</i> 1993. <i>J. Exp. Med.</i> 177:1331. (IP)</li> <li>Gundlach CW 4th, <i>et al.</i> 2011. <i>Bioconjug. Chem.</i> 22:1706. (Pig Reactivity)</li> <li>Touboul C, <i>et al.</i> 2013. <i>J. Transl. Med.</i> 11:28. (IF)</li> <li>Bradley JE, <i>et al.</i> 2013. <i>Lab Invest.</i> 93:365. (Epitope)</li> <li>Donnenberg VS, <i>et al.</i> 2010. <i>Cytometry B. Clin. Cytom.</i> 5:287. (IHC)</li> </ol>
Description:	CD90 is a 25-35 kD GPI-anchored protein, also known as Thy-1. It belongs to the 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, <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. 3. Wetzel A, <i>et al.</i> 2004. <i>J. Immunol.</i> 172:3850.

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