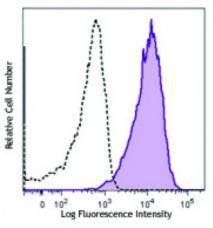
Product Data Sheet

Alexa Fluor[®] 700 anti-human CD90 (Thy1)

Catalog # / Size:	2240600 / 100 μg 2240595 / 25 μg
Clone:	5E10
Isotype:	Mouse IgG1, κ
Immunogen:	HEL cells
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 700 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.5



Human erythroleukemic cell line (HEL) were stained with CD90 (clone 5E10) Alexa Fluor® 700 (filled histogram) or mouse IgG1, κ Alexa Fluor® 700 isotype control (open histogram).

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. The suggested use of this reagent is ≤ 2.0 microg per 10 ⁶ cells in 100 microL volume or 100 microL of whole blood. It is highly recommended that the reagent be titrated for optimal performance for each application.
	* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633nm / 635nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.
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, <i>et al.</i> 1993. <i>J. Exp. Med.</i> 177:1331. (IP) Gundlach CW 4th, <i>et al.</i> 2011. <i>Bioconjug. Chem.</i> 22:1706. (Pig Reactivity) Touboul C, <i>et al.</i> 2013. <i>J. Transl. Med.</i> 11:28. (IF) Bradley JE, <i>et al.</i> 2013. <i>Lab Invest.</i> 93:365. (Epitope) Donnenberg VS, <i>et al.</i> 2010. <i>Cytometry B. Clin. Cytom.</i> 5:287. (IHC)
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 ⁺ 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.
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Antigen	1. McKenzie JL, <i>et al.</i> 1981. <i>J. Immunol.</i> 126:843.
References:	2. Avalos AM, et al. 2002. Biol. Res. 35:231.
	3. Wetzel A, <i>et al.</i> 2004. <i>J. Immunol.</i> 172:3850.

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