BioLegend
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Product Data Sheet

Alexa Fluor® 647 anti-human CD90 (Thy1)

Catalog # / Size: 328115 / 25 tests
328116 / 100 tests

Clone: 5E10

Isotype: Mouse IgG1, κ

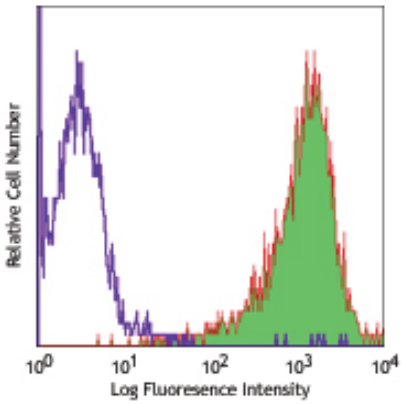
Immunogen: HEL cells

Reactivity: Human, **Cross-Reactivity:** Baboon, Cynomolgus, Rhesus, Pigtailed Macaque, Pig[2]

Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 647.

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 erythroleukemia cell line (HEL) stained with 5E10 Alexa Fluor® 647

Applications:

Applications: FC - *Quality tested*

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 5 µl per million cells or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.
** Alexa Fluor® is a registered trademark of Molecular Probes, Inc. Alexa Fluor® dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

Application Notes: Additional reported (for the relevant formats) applications include: immunohistochemical staining of acetone-fixed frozen sections and immunoprecipitation[1].

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
Cell Staining Buffer		FC, ICC, ICFC
Alexa Fluor® 647 Mouse IgG1, κ Isotype Ctrl (FC)	MOPC-21	FC, IF
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC

BioLegend Inc., 9727 Pacific Heights Blvd, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587