

LEAF™ Purified anti-human CD90 (Thy1)

Catalog # / Size: 328104 / 500 µg

Clone: 5E10

Isotype: Mouse IgG1, κ

Immunogen: HEL cells

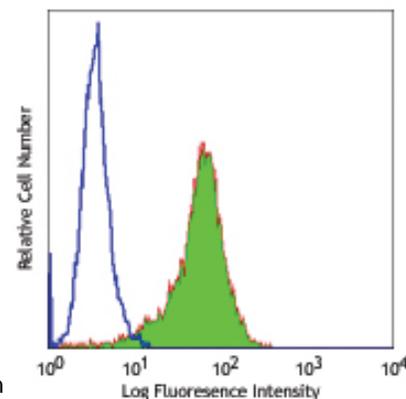
Reactivity: Human, **Cross-Reactivity:** Baboon, Cynomolgus, Rhesus, Pigtailed Macaque, Pig²

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.



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

Applications:

Applications: FC - *Quality tested*
IHC, IP, FA - *Reported in the literature*
CyTOF® - *Validated*

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 or 100 µl of whole blood. 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. *Bioconj. 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 |
|--|----------|-------------------------------|
| APC Goat anti-mouse IgG (minimal x-reactivity) | Poly4053 | FC |
| LEAF™ Purified Mouse IgG1, κ Isotype Ctrl | MOPC-21 | FC, ICFC, WB, IP, ICC, IF, FA |
| PE Goat anti-mouse IgG (minimal x-reactivity) | Poly4053 | FC |
| Cell Staining Buffer | | FC, ICC, ICFC |
| RBC Lysis Buffer (10X) | | FC, ICFC |
| LEAF™ Purified Mouse IgG1, κ Isotype Ctrl | MG1-45 | FC, ICFC, WB, IP, ICC, IF, FA |



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