

Datasheet for ABIN968931
anti-CD90 antibody (APC)[Go to Product page](#)**1** Image**5** Publications

Overview

| | |
|--------------|---|
| Quantity: | 100 tests |
| Target: | CD90 (THY1) |
| Reactivity: | Human, Pig, Non-Human Primate, Horse |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This CD90 antibody is conjugated to APC |
| Application: | Flow Cytometry (FACS) |

Product Details

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| Immunogen: | HEL erythroleukemia cells |
| Clone: | 5E10 |
| Isotype: | IgG1 kappa |
| Specificity: | The mouse monoclonal antibody 5E10 recognizes CD90/Thy-1, a GPI-anchored cell surface glycoprotein expressed predominantly on thymocytes, hematopoietic stem cells and neurons. |
| No Cross-Reactivity: | Dog |
| Cross-Reactivity (Details): | Human, Non-Human Primates, Porcine, Equine (Horse) |
| Purification: | Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. |

Target Details

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|-------------------|---|
| Target: | CD90 (THY1) |
| Alternative Name: | CD90 (THY1 Products) |
| Background: | Thy-1 cell surface antigen,CD90 (Thy-1) is an 18-35 kDa GPI-anchored plasma membrane glycoprotein expressed in many cell types, such as in hematopoietic cells and neurons, connective tissues, various fibroblast and stromal cell lines, tumor endothelial cell lines and other. It is involved in T cell activation, cellular adhesion, proliferation and migration, neurite outgrowth, wound healing, apoptosis, and fibrosis. CD90 participates in multiple signaling cascades and its effects are tissue- and cell type-specific. It often functions as an important regulator of cell-cell and cell-matrix interactions.,Thy-1 |
| Gene ID: | 7070 |
| UniProt: | P04216 |
| Pathways: | Cell-Cell Junction Organization |

Application Details

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| Application Notes: | Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests. |
| Comment: | The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary. |
| Restrictions: | For Research Use only |

Handling

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|--------------------|--|
| Format: | Liquid |
| Reconstitution: | No reconstitution is necessary. |
| Buffer: | Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | Do not freeze. Avoid prolonged exposure to light. |

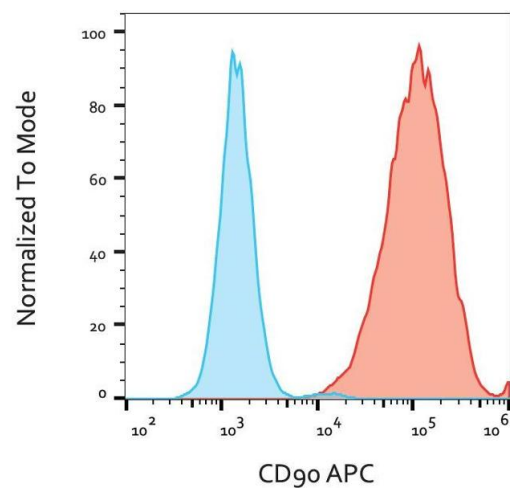
Handling

Storage: 4 °C

Storage Comment: Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

- Product cited in: Hoppstädter, Diesel, Zarbock, Breinig, Monz, Koch, Meyerhans, Gortner, Lehr, Huwer, Kiemer: "Differential cell reaction upon Toll-like receptor 4 and 9 activation in human alveolar and lung interstitial macrophages." in: **Respiratory research**, Vol. 11, pp. 124, (2010) ([PubMed](#)).
- Kroeze, Jurgens, Doulabi, van Milligen, Scheper, Gibbs: "Chemokine-mediated migration of skin-derived stem cells: predominant role for CCL5/RANTES." in: **The Journal of investigative dermatology**, Vol. 129, Issue 6, pp. 1569-81, (2009) ([PubMed](#)).
- Carlsten, Björkström, Norell, Bryceson, van Hall, Baumann, Hanson, Schedvins, Kiessling, Ljunggren, Malmberg: "DNAX accessory molecule-1 mediated recognition of freshly isolated ovarian carcinoma by resting natural killer cells." in: **Cancer research**, Vol. 67, Issue 3, pp. 1317-25, (2007) ([PubMed](#)).
- St Louis, Woodcock, Franzoso, Blair, Carlson, Murillo, Wells, Williams, Smoot, Kaushal, Grimes, Harlan, Chute, June, Siebenlist, Lee, Fransozo: "Evidence for distinct intracellular signaling pathways in CD34+ progenitor to dendritic cell differentiation from a human cell line model." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 162, Issue 6, pp. 3237-48, (1999) ([PubMed](#)).
- Ito, Inaba, Inaba, Toki, Sogo, Iguchi, Adachi, Yamaguchi, Amakawa, Valladeau, Saeland, Fukuhara, Ikehara: "A CD1a+/CD11c+ subset of human blood dendritic cells is a direct precursor of Langerhans cells." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 163, Issue 3, pp. 1409-19, (1999) ([PubMed](#)).



Flow Cytometry

Image 1. Surface staining of CD90 in Jurkat cells with anti-CD90 (5E10) APC.