

Datasheet for ABIN780368
anti-CD90 antibody (PE)[Go to Product page](#)

1 Image

7 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 PE
Application:	Flow Cytometry (FACS)

Product Details

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 R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	CD90 (THY1)
Alternative Name:	CD90 (THY1 Products)
Background:	<p>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</p>
Gene ID:	7070
UniProt:	P04216
Pathways:	Cell-Cell Junction Organization

Application Details

Application Notes:	<p>Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.</p>
Comment:	<p>The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.</p>
Restrictions:	For Research Use only

Handling

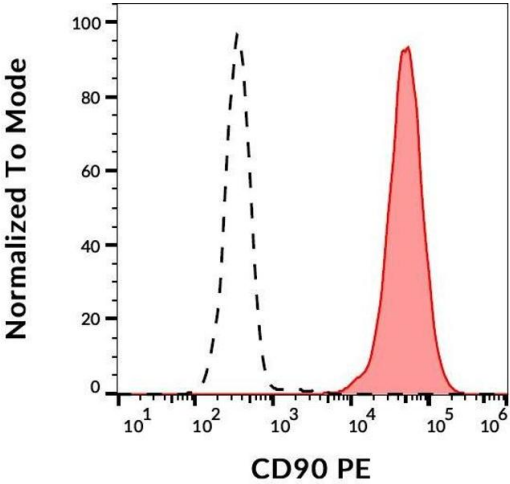
Reconstitution:	No reconstitution is necessary.
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	<p>This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.</p>
Handling Advice:	<p>Do not freeze.</p> <p>Avoid prolonged exposure to light.</p>
Storage:	4 °C

Handling

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

Publications

- Product cited in:
- DePompeo, Giasseti, Elnaggar, Oatley, Davis, Fransson: "Isolation of canine adipose-derived mesenchymal stem cells from falciform tissue obtained via laparoscopic morcellation: A pilot study." in: **Veterinary surgery : VS**, (2019) ([PubMed](#)).
- 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](#)).
- Seiffert, Brossart, Cant, Cella, Colonna, Brugger, Kanz, Ullrich, Bühring: "Signal-regulatory protein alpha (SIRPalpha) but not SIRPbeta is involved in T-cell activation, binds to CD47 with high affinity, and is expressed on immature CD34(+)CD38(-) hematopoietic cells." in: **Blood**, Vol. 97, Issue 9, pp. 2741-9, (2001) ([PubMed](#)).
- There are more publications referencing this product on: [Product page](#)



Flow Cytometry

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