Datasheet for ABIN775703

anti-CD90 antibody

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Overview

Quantity:	0.1 mg
Target:	CD90 (THY1)
Reactivity:	Human, Pig, Horse, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD90 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunocytochemistry (ICC)

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 by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

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

Application Notes:	Flow cytometry: Recommended dilution: 1-3 µg/mL. Immunohistochemistry: Recommended dilution: 5-10 µg/mL.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4
Preservative:	Azide free
Handling Advice:	**Do not freeze.**
Storage:	4 °C
Storage Comment:	Store at 2-8°C. 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).

Publications

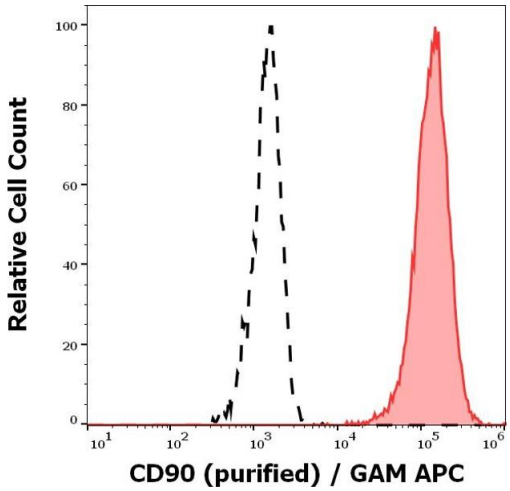
Kroeze, Jurgens, Doulabi, van Milligen, Scheper, Gibbs: "Chemokine-mediated migration of skin-derived stem cells: predominant role for CCL5/RANTES." in: **The Journal of investigative dermatology**, Vol. 129, Issue 6, pp. 1569-81, (2009) (PubMed).

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).

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).

Images



Flow Cytometry

Image 1. Separation of Jurkat cells (red-filled) from SP2 cells (black-dashed) in flow cytometry analysis (surface staining) stained using anti-human CD90 (5E10) purified antibody (concentration in sample 1 µg/mL, GAM APC).