Anti-Human CD90 Antibody, Clone 5E10, APC

Antibodies

Mouse monoclonal IgG1 antibody against human, rhesus, cynomolgus CD90 (Thy-1), APC-conjugated

Catalog #60045AZ #60045AZ.1 100 Tests 5 µL/test 25 Tests 5 µL/test



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Product Description

The 5E10 antibody reacts with CD90 (Thy-1), a GPI-linked membrane glycoprotein that is N-glycosylated at two sites, giving rise to 25 - 37 kDa molecules. CD90 has roles in signal transduction, cell adhesion and migration, neurite outgrowth, T cell activation, tumor suppression, and inhibition of the proliferation and differentiation of hematopoietic stem cells. It is a known ligand of β2 and β3 integrins and upregulates synthesis of fibronectin, osteonectin and thrombospondin. CD90 is broadly expressed, being found on human thymocytes, neurons, some glial cells, fibroblasts, activated endothelial cells, some leukemia cell lines and a distinct subset (< 1%) of CD3+CD4+ T cells in human peripheral blood. CD90 is also expressed by small subsets of CD34+ cells in fetal liver, umbilical cord blood, bone marrow and mobilized peripheral blood cells. CD90 is considered an important marker for hematopoietic stem and progenitor cells and, in combination with other markers such as CD34, is useful to identify and isolate these cells by FACS.

Target Antigen Name: CD90 (Thy-1) Alternative Names: CDw90, Thy-1, Thy1

Gene ID: 7070

Species Reactivity: Human, Rhesus, Cynomolgus, Baboon, Pigtailed Macaque, Dog, Pig

Host Species: Mouse (BALB/c) Clonality: Monoclonal Clone: 5F10

Isotype:

IgG1, kappa

Immunogen: Human HEL erythroleukemia cell line

Conjugate: **APC**

Applications

Verified: FC Reported: FC

Special Applications: This antibody clone has been verified for labeling human mesenchymal cells grown in MesenCult™

Proliferation Kit (Human; Catalog #05411) and MesenCult™-XF Medium (Catalog #05420).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation;

RIA: Radioimmunoassay; WB: Western blotting

Properties

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) bovine serum albumin

Purification: The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions. The

solution is free of unconjugated APC.

Stability and Storage: Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to

light. For product expiry date, please contact techsupport@stemcell.com.

Directions for Use: For flow cytometry the suggested use of this antibody is ≤ 5 µL per 1 x 10^6 cells in 100 µL volume or per

100 µL of whole blood. It is recommended that the antibody be titrated for optimal performance for each

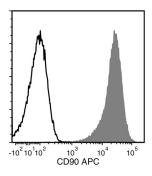
application.

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Data



Flow cytometry analysis of human erythroleukemia (HEL) cells labeled with Anti-Human CD90 Antibody, Clone 5E10, APC (filled histogram) or a mouse IgG1, kappa isotype control antibody, APC (solid line histogram).

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

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