Anti-Human CD34 Antibody, Clone 8G12, PE

Antibodies

Mouse monoclonal IgG1 antibody against human CD34, PE-conjugated

Catalog #60121PE 100 Tests 20 µL/test

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Product Description

CD34 is an ~105 - 120 kDa type 1 transmembrane glycoprotein expressed on the surface of most human hematopoietic stem and progenitor cells (HSPCs), as well as on endothelial cells and some tumor cell lines. The frequency of CD34+ cells is low in bone marrow (1 - 4%), cord blood (~1%), and peripheral blood (< 0.1%). CD34 is used to identify and isolate HSPCs, including those capable of reconstituting hematopoiesis after transplantation. Distinct epitope groups have been assigned to CD34 based on differences in the structure of carbohydrate groups, which affects their sensitivity to enzymatic cleavage. The 8G12 antibody recognizes a class III epitope (resistant to neuraminidase and O-glycoprotease). Clone 8G12 does not recognize rhesus macaque CD34.

Target Antigen Name:	CD34
Alternative Names:	Gp105-120, My10
Gene ID:	947
Species Reactivity:	Human
Host Species:	Mouse (BALB/c)
Clonality:	Monoclonal
Clone:	8G12
Isotype:	IgG1, kappa
Immunogen:	Human cell line KG-1a
Conjugate:	PE (Phycoerythrin)

Applications

Verified:	FC
Reported:	FC

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 saline containing 0.1% sodium azide and gelatin
Purification:	The antibody was purified by column chromatography.
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 20 µL per 1 x 10^6 cells in 100 µL. It is recommended that the antibody be titrated for optimal performance for each application.

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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4. Strauss LC et al. (1986) Antigenic analysis of hematopoiesis. V. Characterization of My-10 antigen expression by normal lymphohematopoietic progenitor cells. Exp Hematol 14(9): 878–86.
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