

Anti-Human CD33 Antibody, Clone P67.6, PE



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Antibodies

Mouse monoclonal IgG1 antibody
against human CD33, PE-conjugated

Catalog #60126PE
#60126PE.1

100 tests 5 µL/test
25 tests 5 µL/test

FOR RESEARCH USE ONLY. NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES.

Product Description

The P67.6 antibody reacts with CD33 (Siglec-3), a 67 kDa type 1 transmembrane sialoadhesin protein of the immunoglobulin superfamily. CD33 is expressed on committed myeloid progenitor cells, monocytes, granulocytes, dendritic cells, mast cells, resident macrophages, and subsets of B cells and activated T and NK cells. CD33 is a major marker used to differentiate myeloid from lymphoid or erythroid leukemias. In peripheral blood it is expressed at high levels on monocytes and at lower levels on granulocytes. CD33 functions as a sialic acid-dependent cell adhesion molecule and mediates protein-glycan and protein-protein interactions between cells. It also has a putative role as an inhibitory receptor during the immune response.

Target Antigen Name:	CD33
Alternative Names:	gp67, p67, Sialic acid binding Ig-like lectin 3, Siglec-3
Gene ID:	945
Species Reactivity:	Human
Host Species:	Mouse (BALB/c)
Clonality:	Monoclonal
Clone:	P67.6
Isotype:	IgG1, kappa
Immunogen:	FMY9S5 cells expressing CD33 gene
Conjugate:	PE

Applications

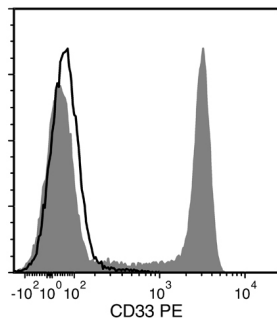
Verified:	FC
Reported:	FC

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; 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 PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.
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 1×10^6 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.

Data



Flow cytometry analysis of human peripheral blood mononuclear cells (PBMCs) labeled with Anti-Human CD33 Antibody, Clone P67.6, PE (filled histogram) or Mouse IgG1, kappa Isotype Control Antibody, Clone MOPC-21, PE (Catalog #60070PE; 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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3. Srinivasan A et al. (2014) Phase I study of the safety and pharmacokinetics of Plerixafor in children undergoing a second allogeneic hematopoietic stem cell transplantation for relapsed or refractory leukemia. *Biol Blood Marrow Transplant* 20(8): 1224–28. (FC)
4. Thiesen S et al. (2014) CD14(hi)HLA-DR(dim) macrophages, with a resemblance to classical blood monocytes, dominate inflamed mucosa in Crohn's disease. *J Leukoc Biol* 95(3): 531–41. (FC)
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