

Anti-Human CD43 Antibody, Clone CD43-10G7

Antibodies

Mouse monoclonal IgG1 antibody
against human CD43, unconjugated

Catalog #60085

100 µg 0.5 mg/mL



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Product Description

The CD43-10G7 antibody reacts with human CD43, a type I transmembrane sialoglycoprotein expressed on the surface of most human hematopoietic cells, including thymocytes, peripheral T cells, NK cells, monocytes, granulocytes, some B cells (activated B cells and an early B cell subset in bone marrow), plasma cells, and hematopoietic progenitor cells. Low expression levels are observed on platelets. CD43 exhibits different glycoforms in the range of ~95 - 135 kDa, depending on the cell type. It binds ligands such as CD54 and CD169 (Siglec-1) and plays regulatory roles in cell adhesion and activation, apoptosis and tumor progression, and is used a marker for discriminating normal from neoplastic T cells and B cells within tissues. Binding of the CD43-10G7 antibody to CD43 on neutrophils reportedly induces homotypic cell adhesion.

Target Antigen Name:	CD43
Alternative Names:	Leukocyte sialoglycoprotein, Leukosialin, Ly-48, Sialophorin, W3/13
Gene ID:	6693
Species Reactivity:	Human
Host Species:	Mouse (BALB/c)
Clonality:	Monoclonal
Clone:	CD43-10G7
Isotype:	IgG1, kappa
Immunogen:	MV4-11 human myelomonocytic cell line
Conjugate:	Unconjugated

Applications

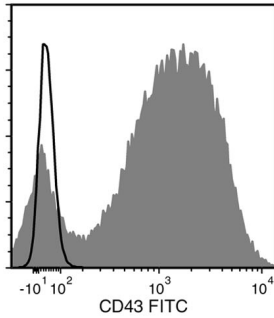
Verified:	FC
Reported:	FA, FC, IP
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ HLA Whole Blood B Cell Positive Selection Kit (Catalog #18184HLA).

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
Purification:	The antibody was purified by affinity chromatography.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. For product expiry date, please contact techsupport@stemcell.com .
Directions for Use:	For flow cytometry the suggested use of this antibody is ≤ 0.5 µg per 1 × 10 ⁶ cells in 100 µL volume. 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 CD43 Antibody, Clone CD43-10G7, followed by Goat Anti-Mouse IgG (H+L) Antibody, Polyclonal, FITC (Catalog #60138FI) (filled histogram), or a mouse IgG1, kappa isotype control antibody, followed by Goat Anti-Mouse IgG (H+L) Antibody, Polyclonal, FITC (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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2. Vuyyuru R et al. (2011) Characteristics of *Borrelia hermsii* infection in human hematopoietic stem cell-engrafted mice mirror those of human relapsing fever. *Proc Natl Acad Sci USA* 108(51): 20707–12. (FC)
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6. Rosenstein Y et al. (1991) CD43, a molecule defective in Wiskott-Aldrich syndrome, binds ICAM-1. *Nature* 354(6350): 233–5.

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