Anti-Human CD183 (CXCR3) Antibody, Clone G025H7, APC

Antibodies

Mouse monoclonal IgG1 antibody against human, rhesus, cynomolgus CD183 (CXCR3), APC-conjugated

Catalog	#60088AZ	100 Tests	5 µL/test
	#60088AZ.1	25 Tests	5 µL/test

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Product Description

The G025H7 antibody reacts with an extracellular epitope on human CD183 (CXCR3). CD183 is an ~40 kDa seven-pass G protein-coupled transmembrane chemokine receptor expressed predominantly on the surface of IL2-activated (Th1) T cells, as well as on natural killer (NK) cells, dendritic cells, mast cells, alveolar macrophages, eosinophils, and human airway epithelial cells. Binding of chemokines to CD183 induces cellular responses involved in leukocyte migration into inflamed tissue, including Ca2+ mobilization, integrin activation, cytoskeletal rearrangements and chemotaxis, and consequently CD183 plays roles in several inflammatory and autoimmune diseases. Three ligands for CD183 have been identified; Mig (CXCL9), IP-10 (CXCL10) and I-TAC (CXCL11), with the latter exhibiting the highest affinity for CD183 and the most potent induction of the chemotactic response. These chemokines are secreted by a variety of cells upon stimulation by IFN-gamma.

Target Antigen Name:	CD183 (CXCR3)
Alternative Names:	Chemokine (C-X-C motif) receptor 3, CKRL2, CMKAR3, CXCR3, GPR9, IP10 receptor, Mig receptor
Gene ID:	2833
Species Reactivity:	Human, Rhesus, Cynomolgus
Host Species:	Mouse
Clonality:	Monoclonal
Clone:	G025H7
Isotype:	IgG1, kappa
Immunogen:	Human CD183 (CXCR3)-transfected cells
Conjugate:	APC

Applications

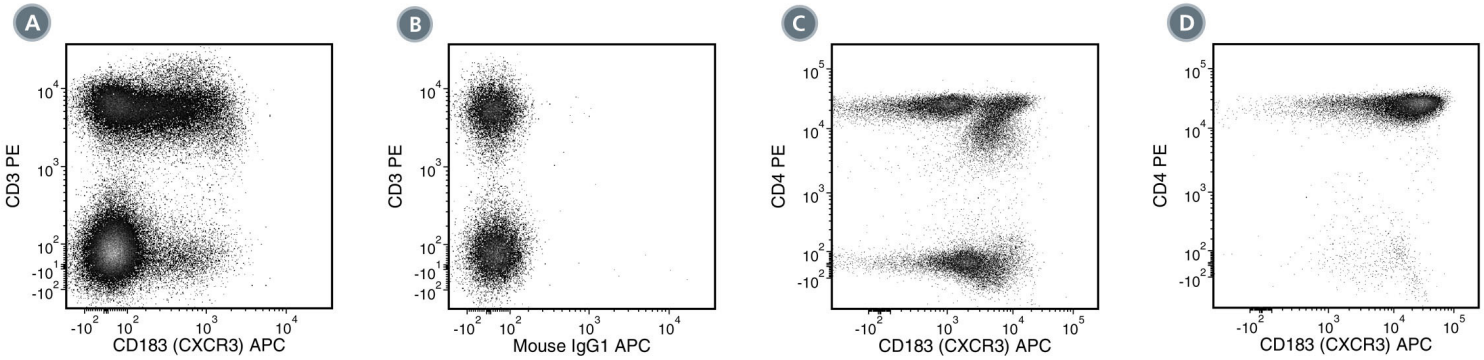
Verified:	FC
Reported:	FC
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Human Th1 Isolation Kit (Catalog #18161) and EasySep™ Human Th17 Isolation Kit (Catalog #18162).

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 APC under optimal conditions. The solution is free of unconjugated APC 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 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.

Data



(A) Flow cytometry analysis of human peripheral blood mononuclear cells (PBMCs) labeled with Anti-Human CD183 (CXCR3) Antibody, Clone G025H7, APC and Anti-Human CD3 Antibody, Clone UCHT1, PE (Catalog #60011PE).
(B) Flow cytometry analysis of human PBMCs labeled with a mouse IgG1, kappa APC isotype control antibody and Anti-Human CD3 Antibody, Clone UCHT1, PE.
(C) Flow cytometry analysis of human PBMCs (i.e. Start cells) labeled with Anti-Human CD183 (CXCR3) Antibody, Clone G025H7, APC and anti-human CD4, PE immediately before processing the cells with EasySep™ Human Th1 Cell Isolation Kit.
(D) Flow cytometry analysis of human PBMCs processed with the EasySep™ Human Th1 Cell Isolation Kit and labeled with Anti-Human CD183 (CXCR3) Antibody, Clone G025H7, APC and anti-human CD4, PE.

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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