

Antibodies

Anti-Human CD183 (CXCR3) Antibody, Clone G025H7, Alexa Fluor® 488

Mouse monoclonal IgG1 antibody
against human, rhesus, cynomolgus
CD183 (CXCR3), Alexa Fluor® 488-
conjugated



Scientists Helping Scientists™ | WWW.STEMCELL.COM

TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713

INFO@STEMCELL.COM • TECHSUPPORT@STEMCELL.COM

FOR GLOBAL CONTACT DETAILS VISIT OUR WEBSITE

Catalog #60088AD
#60088AD.1

100 Tests 5 µL/test
25 Tests 5 µL/test

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-γ.

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:	Alexa Fluor® 488

Applications

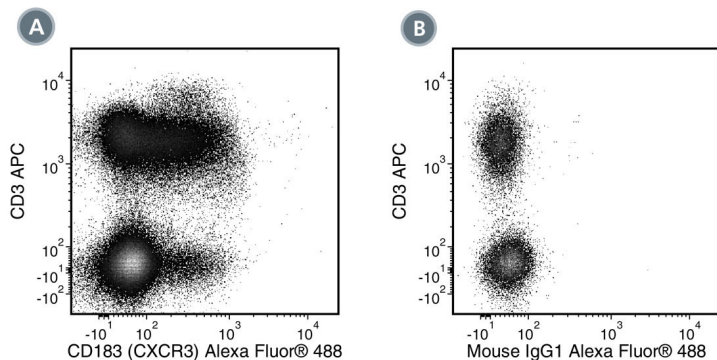
Verified:	FC
Reported:	FC
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Human Th1 Isolation Kit (Catalog #18161) and EasySep™ Human Th17 Isolation Kit (Catalog #18162).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; 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 Alexa Fluor® 488 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 488.
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, Alexa Fluor® 488 and Anti-Human CD3 Antibody, Clone UCHT1, APC (Catalog #60011AZ).

(B) Flow cytometry analysis of human PBMCs labeled with Mouse IgG1, kappa Isotype Control Antibody, Clone MOPC-21, Alex Fluor® 488 (Catalog #60070AD) and Anti-Human CD3 Antibody, Clone UCHT1, APC.

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

1. Alexander T et al. (2013) Foxp3⁺ Helios⁺ regulatory T cells are expanded in active systemic lupus erythematosus. *Ann Rheum Dis* 72(9): 1549–58.
2. Cany J et al. (2013) Natural killer cells generated from cord blood hematopoietic progenitor cells efficiently target bone marrow-residing human leukemia cells in NOD/SCID/IL2Rg(null) mice. *PLoS One* 8(6): e64384.
3. Yamamoto-Taguchi N et al. (2013) HTLV-1 bZIP factor induces inflammation through labile Foxp3 expression. *PLoS Pathog* 9(9): e1003630.
4. Wenzel J et al. (2008) Gene expression profiling of lichen planus reflects CXCL9+-mediated inflammation and distinguishes this disease from atopic dermatitis and psoriasis. *J Invest Dermatol* 128(1): 67–78.
5. Turner JE et al. (2007) Targeting of Th1-associated chemokine receptors CXCR3 and CCR5 as therapeutic strategy for inflammatory diseases. *Mini Rev Med Chem* 7(11): 1089–96.
6. Cole KE et al. (1998) Interferon-inducible T cell alpha chemoattractant (I-TAC): a novel non-ELR CXC chemokine with potent activity on activated T cells through selective high affinity binding to CXCR3. *J Exp Med* 187(12): 2009–21.
7. Qin S et al. (1998) The chemokine receptors CXCR3 and CCR5 mark subsets of T cells associated with certain inflammatory reactions. *J Clin Invest* 101(4): 746–54.

STEMCELL TECHNOLOGIES INC.'S QUALITY MANAGEMENT SYSTEM IS CERTIFIED TO ISO 13485. PRODUCTS ARE FOR RESEARCH USE ONLY AND NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES UNLESS OTHERWISE STATED.

Copyright © 2016 by STEMCELL Technologies Inc. All rights reserved including graphics and images. STEMCELL Technologies & Design, STEMCELL Shield Design, Scientists Helping Scientists and EasySep are trademarks of STEMCELL Technologies Inc. All other trademarks are the property of their respective holders. Alexa Fluor® is a registered trademark of Life Technologies Corporation. This product is licensed for internal research use only and its sale is expressly conditioned on the buyer not using it for manufacturing, performing a service, or medical test, or otherwise generating revenue. For use other than research, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@lifetech.com. While STEMCELL has made all reasonable efforts to ensure that the information provided by STEMCELL and its suppliers is correct, it makes no warranties or representations as to the accuracy or completeness of such information.