### Anti-Human CD183 (CXCR3) Antibody, Clone G025H7, PE

### **Antibodies**

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

Catalog #60088PE #60088PE.1

100 Tests 5 μL/test 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: PE

# **Applications**

Verified: FC Reported: FC

Special Applications: This antibody clone has been verified for purity assessments of cells isolated with EasySep<sup>TM</sup> 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 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 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

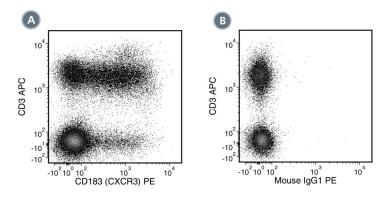
application.

#### Anti-Human CD183 (CXCR3) Antibody, Clone G025H7, PE

## **Antibodies**



### Data



- (A) Flow cytometry analysis of human peripheral blood mononuclear cells (PBMCs) labeled with Anti-Human CD183 (CXCR3) Antibody, Clone G025H7, PE and Anti-Human CD3 Antibody, Clone UCHT1, APC (Catalog #60011AZ).
- (B) Flow cytometry analysis of human PBMCs labeled with a mouse IgG1, kappa PE isotype control antibody 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

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- 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.

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