

Product Data Sheet

Alexa Fluor® 647 anti-human CD182 (CXCR2)

Catalog # / Size: 320714 / 100 tests

Clone: 5E8/CXCR2

Isotype: Mouse IgG1, κ

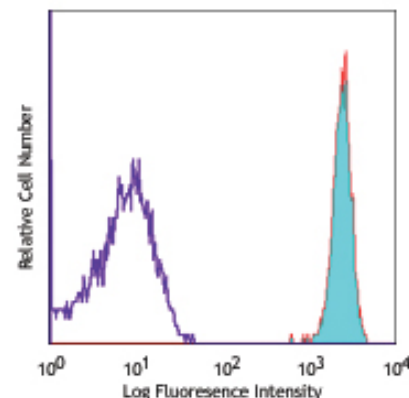
Immunogen: Human CXCR2 transfected L1.2 cells

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 647.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood granulocytes stained with 5E8/CXCR2 Alexa Fluor® 647

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is 5 μ l per million cells or 5 μ l per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.

** Alexa Fluor® is a registered trademark of Molecular Probes, Inc. Alexa Fluor® dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

Application Notes: Additional reported applications (for the relevant formats) include: The 5E8/CXCR2 antibody is useful for immunofluorescent staining and flow cytometric analysis of CXCR2 expression.

Application References: 1. Kyriakakis E, *et al.* 2011. *J Leukoc Biol.* 90:929. PubMed.

Description: CXCR2 is a 67-70 kD seven-transmembrane protein, also known as IL-8 receptor B (IL-8RB), CD182, and CD128b. It is a CXC chemokine receptor belongs to G protein-coupled receptor (GPCR) family. CXCR2 is expressed as homodimer or heterodimer with CXCR1 and found on granulocytes, NK cells, subset of T lymphocytes, mast cells, monocytes, endothelial cells, megakaryocytes, and oligodendrocytes. CXCR2 mediates neutrophil activation and chemotaxis, megakaryocytic proliferation, and angiogenesis via binding its ligands including IL-8(CXCL8), NAP-2(CXCL7), GCP-2(CXCL6), and GRO- α,β,γ (CXCL1, CXCL2, CXCL3).

Antigen References: 1. Chuntharapai A, *et al.* 1994. *J. Immunol.* 153:5682.
 2. Wilson S, *et al.* 2005. *J. Biol. Chem.* 280:28663.
 3. Emadi S, *et al.* 2005. *Blood* 105:464.
 4. Omari KM, *et al.* 2005. *Brain* 128:1003.
 5. Juremalm M and Nilsson G. 2005. *Chem. Immunol. Allergy* 87:130.
 6. Wolf M, *et al.* 1998. *Eur. J. Immunol.* 28:164.

Related Products:

Product

Cell Staining Buffer

Alexa Fluor® 647 Mouse IgG1, κ Isotype Ctrl (FC)

RBC Lysis Buffer (10X)

Human TruStain FcX™ (Fc Receptor Blocking Solution)

Clone

MOPC-21

Application

FC, ICC, ICFC

FC, IF

FC, ICFC

FC, ICC, ICFC



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