

## Alexa Fluor® 488 anti-human CD181 (CXCR1)

**Catalog # / Size:** 320616 / 100 tests

**Clone:** 8F1/CXCR1

**Isotype:** Mouse IgG2b,  $\kappa$

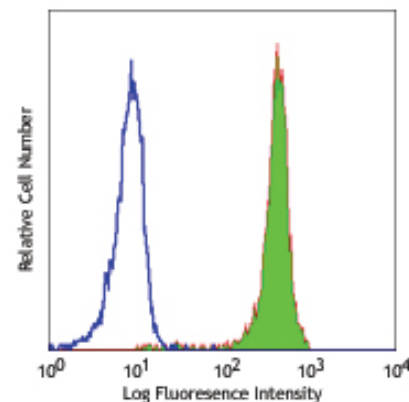
**Immunogen:** Human CXCR1 transfected L1.2 cells

**Reactivity:** Human

**Preparation:** 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.

**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 8F1/CXCR1 Alexa Fluor® 488

## 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  $\mu$ l per million cells or 5  $\mu$ l per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

\* Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm.

\*\* 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 8F1/CXCR1 antibody is useful for immunofluorescent staining and flow cytometric analysis of CXCR1 expression.

**Description:** CXCR1 is a 67-70 kD seven-transmembrane protein, also known as IL-8 receptor A (IL-8RA), CD181, and CDw128a. It is a CXC chemokine receptor belongs to G protein-coupled receptor (GPCR) family. CXCR1 is expressed as homodimer or heterodimer with CXCR2 and found on granulocytes, NK cells, subset of T lymphocytes, mast cells, monocytes, endothelial cells, megakaryocytes, and oligodendrocytes. The expression level of CXCR1 on monocytes is lower than that of CXCR2. CXCR1 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- $\alpha$ (CXCL1).

**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, G. Nilsson. 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® 488 Mouse IgG2b,  $\kappa$  Isotype Ctrl

Human TruStain FcX™ (Fc Receptor Blocking Solution)

### Clone

MPC-11

### Application

FC, ICC, ICFC

FC, ICFC

FC, ICC, ICFC



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