**Product Name: SDF1 (12B8) Rabbit Monoclonal** 

**Antibody** 

Catalog #: AMRe17675



### **Summary**

**Production Name** SDF1 (12B8) Rabbit Monoclonal Antibody

**Description** Rabbit Monoclonal Antibody

**Host** Rabbit

**Application** WB,ICC/IF,FC **Reactivity** Human,Mouse

#### **Performance**

ConjugationUnconjugatedModificationUnmodified

**Isotype** IgG

Clonality Monoclonal Form Liquid

**Storage** Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type

**Buffer** preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term.

Avoid freeze / thaw cycle.

**Purification** Affinity purification

#### **Immunogen**

Gene Name CXCL12

Stromal cell-derived factor 1; SDF-1; hSDF-1; IRH; hIRH; PBSF; CXCL12; SDF1; SDF1A; Alternative Names

SDF1B;

 Gene ID
 6387.0

 SwissProt ID
 P48061.

## **Application**

**Dilution Ratio** WB 1:2000-1:20000, ICC/IF 1:100-1:200, FCM 1:20-1:50

Molecular Weight 11kDa

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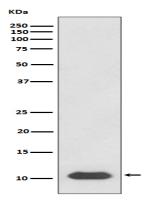


### **Background**

Chemoattractant active on T-lymphocytes, monocytes, but not neutrophils. Activates the C-X-C chemokine receptor CXCR4 to induce a rapid and transient rise in the level of intracellular calcium ions and chemotaxis. Also binds to atypical chemokine receptor ACKR3, which activates the beta-arrestin pathway and acts as a scavenger receptor for SDF-1. Chemoattractant active on T-lymphocytes and monocytes but not neutrophils. Activates the C-X-C chemokine receptor CXCR4 to induce a rapid and transient rise in the level of intracellular calcium ions and chemotaxis. SDF-1-beta(3-72) and SDF-1-alpha(3-67) show a reduced chemotactic activity. Binding to cell surface proteoglycans seems to inhibit formation of SDF-1-alpha(3-67) and thus to preserve activity on local sites. Also binds to atypical chemokine receptor ACKR3, which activates the beta-arrestin pathway and acts as a scavenger receptor for SDF-1. Binds to the allosteric site (site 2) of integrins and activates integrins ITGAV:ITGB3, ITGA4:ITGB1 and ITGA5:ITGB1 in a CXCR4-independent manner (PubMed: <a href="http://www.uniprot.org/citations/29301984" target=" blank">29301984</a>). Acts as a positive regulator of monocyte migration and a negative regulator of monocyte adhesion via the LYN kinase. Stimulates migration of monocytes and T- lymphocytes through its receptors, CXCR4 and ACKR3, and decreases monocyte adherence to surfaces coated with ICAM-1, a ligand for beta-2 integrins. SDF1A/CXCR4 signaling axis inhibits beta-2 integrin LFA-1 mediated adhesion of monocytes to ICAM-1 through LYN kinase. Inhibits CXCR4-mediated infection by T-cell line-adapted HIV-1. Plays a protective role after myocardial infarction. Induces down-regulation and internalization of ACKR3 expressed in various cells. Has several critical functions during embryonic development; required for B-cell lymphopoiesis, myelopoiesis in bone marrow and heart ventricular septum formation. Stimulates the proliferation of bone marrow-derived B-cell progenitors in the presence of IL7 as well as growth of stromal cell- dependent pre-B-cells (By similarity).

# **Research Area**

#### **Image Data**



Western blot analysis of SDF1 expression in Jurkat cell lysate.

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#### Note

For research use only.

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