

## Product datasheet for **PP1067B1**

### **SDF1 (CXCL12) (alpha) Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	ELISA, WB
<b>Recommended Dilution:</b>	<b>Direct ELISA:</b> Using 100 µl/well antibody solution, a concentration of ~1.0 µg/ml is required. This Biotin conjugated antibody allows the detection of at least 0.2-0.4 ng/well of recombinant Human SDF1-alpha. <b>Sandwich ELISA:</b> Using 100 µl/well antibody solution, a concentration of 0.25-1.0 µg/ml is required. In conjunction with Purified Anti-Human SDF1-alpha (Cat.-No PP1067P) as a Capture antibody, it allows the detection of at least 0.2-0.4 ng/well of recombinant Human SDF1-alpha. <b>Western Blot:</b> 0.1-0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant hSDF-1α is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.
<b>Reactivity:</b>	Human
<b>Host:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	Highly pure (>98%) E.coli derived recombinant Human SDF1-alpha ( <i>Cat.-No</i> PA126)
<b>Specificity:</b>	This antibody detects Human Stromal Cell Derived Factor-1 alpha. Other species not tested.
<b>Formulation:</b>	PBS, pH 7.2 without preservatives. Label: Biotin State: Lyophilized (sterile filtered) purified Ig fraction. Label: conjugated
<b>Reconstitution Method:</b>	Restore in sterile PBS containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml.
<b>Purification:</b>	Affinity Chromatography.
<b>Conjugation:</b>	Biotin
<b>Storage:</b>	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.



[View online »](#)

<b>Gene Name:</b>	C-X-C motif chemokine ligand 12
<b>Database Link:</b>	<a href="#">Entrez Gene 6387 Human P48061</a>
<b>Background:</b>	<p>SDF1 alpha and 1 beta are small cytokines that belong to the intercrine family, members of which activate leukocytes and are often induced by proinflammatory stimuli such as lipopolysaccharide, TNF or IL1.</p> <p>SDF1 alpha has been shown to be chemotactic for lymphocytes and is recently reported to be a ligand for CXCR4 (LESTR/fusin), a co-receptor for HIV1 entry into T cells. SDF-1 binding to CXCR4 inhibits HIV1 entry.</p>
<b>Synonyms:</b>	Stromal cell-derived factor 1, SDF1A, SDF1B, IRH, hIRH, PBSF
<b>Note:</b>	Centrifuge vial prior to opening.
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein
<b>Protein Pathways:</b>	Axon guidance, Chemokine signaling pathway, Cytokine-cytokine receptor interaction, Leukocyte transendothelial migration