

## Product datasheet for **PP1067B2**

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

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	<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.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Highly pure (>98%) E.coli derived recombinant Human SDF1-alpha (Cat.-No PA126)
Specificity:	This antibody detects Human Stromal Cell Derived Factor-1 alpha. Other species not tested.
Formulation:	PBS, pH 7.2 without preservatives. Label: Biotin State: Lyophilized (sterile filtered) purified Ig fraction. Label: conjugated
Reconstitution Method:	Restore in sterile PBS containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml.
Purification:	Affinity Chromatography.
Conjugation:	Biotin
Storage:	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.
Stability:	Shelf life: one year from despatch.



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<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