

## Product datasheet for **PP1217B1**

### Cxcl12 (alpha) Goat Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	<b>Direct ELISA:</b> To detect Mouse SDF-1 alpha by Direct ELISA (using 100 µl/well antibody solution) this antibody can be used at a concentration of ~1.0 µg/ml. This biotinylated polyclonal antibody allows the detection of at least 0.2-0.4 ng/well of recombinant Mouse SDF-1 alpha. <b>Sandwich ELISA:</b> To detect Mouse SDF-1 alpha by Sandwich ELISA (using 100 µl/well antibody solution) a concentration of 0.25–1.0 µg/ml of this antibody is required. This biotinylated polyclonal antibody, in conjunction with Anti-Mouse SDF-1 alpha ( <i>Cat.-No</i> PP1217P1 or PP1217P2) as a Capture antibody, allows the detection of at least 0.2–0.4 ng/well of recombinant Mouse SDF-1 alpha. <b>Western Blot:</b> To detect Mouse SDF-1alpha by Western Blot analysis this antibody can be used at a concentration of 0.1-0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant Mouse SDF-1 alpha is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.
Reactivity:	Mouse
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Highly pure (>98%) E.coli derived recombinant Mouse SDF-1 alpha ( <i>Cat.-No</i> PA152)
Specificity:	Reacts with Mouse Stromal Cell Derived Factor-1 alpha (SDF-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



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<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.
<b>Predicted Protein Size:</b>	~150 kDa
<b>Gene Name:</b>	chemokine (C-X-C motif) ligand 12
<b>Database Link:</b>	<a href="#">Entrez Gene 20315 Mouse P40224</a>
<b>Background:</b>	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. 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.
<b>Synonyms:</b>	Stromal cell-derived factor 1, SDF1A, SDF1B, IRH, HIRH, PBSF