

Product datasheet for **TA388949**

Cxcl12 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	<p>Sandwich ELISA: To detect Rat SDF-1 alpha by sandwich ELISA (using 100ul/well antibody solution), a concentration of 0.5 - 2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with ProSci's Biotinylated Anti-Rat SDF-1 alpha as a detection antibody, allows the detection of at least 0.2 - 0.4 ng/well of recombinant Rat SDF-1 alpha.</p> <p>Western Blot</p> <p>To detect Rat SDF-1 alpha by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 µg/ml. When used in conjunction with compatible secondary reagents, the detection limit for recombinant Rat SDF-1 alpha is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.</p>
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Produced from sera of rabbits immunized with highly pure recombinant Rat SDF-1 alpha. Anti-Rat SDF-1 alpha-specific antibody was purified by affinity chromatography employing an immobilized Rat SDF-1 alpha matrix.
Concentration:	lot specific
Purification:	SDF-1 alpha-specific antibody was purified by affinity chromatography employing an immobilized Rat SDF-1 alpha matrix
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.



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Background:

SDF-1 alpha and beta are stromal-derived, CXC chemokines that signal through the CXCR4 receptor. SDF-1 alpha and beta chemoattract B and T cells, and have been shown to induce migration of CD34+ stem cells. Additionally, the SDF-1 proteins exert HIV-suppressive activity in cells expressing the CXCR4 receptor. Human and murine SDF-1 proteins act across species. SDF-1 alpha and beta contain the four highly conserved cysteine residues present in CXC chemokines. The mature SDF-1 alpha protein is the result of alternative splicing of the SDF-1 gene and contains 68 amino acid residues. Recombinant Rat SDF-1 alpha is a 7.9 kDa protein containing 68 amino acid residues.