

# SDF-1 $\beta$ Polyclonal Antibody

**CATALOG #:** 5393-100  
**AMOUNT:** 100  $\mu$ g  
**LOT #:** \_\_\_\_\_  
**HOST:** Rabbit  
**IMMUNOGEN:** *E. coli*-expressed mouse SDF-1 $\beta$

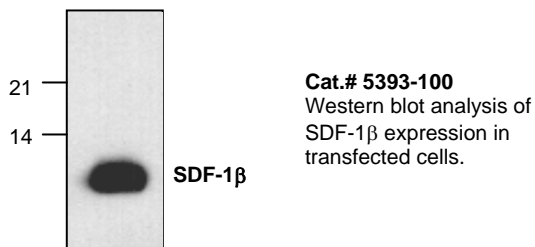
**FORMULATION:**  
 100  $\mu$ g (0.5 mg/ml) Protein A purified rabbit anti-SDF-1 $\beta$  polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA, 0.02% thimerosal.

**SPECIES REACTIVITY:** mouse, rat

**STORAGE CONDITIONS:**  
 Store at -20°C. For long-term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

**BACKGROUND DESCRIPTION:**  
 SDF-1 $\beta$  (stromal cell-derived factor- $\beta$ ), also known as pre-B-cell growth-stimulating factor (PBSF), is a 74-amino acid CXC chemokine originally cloned from a bone marrow stromal cell line. Targeted deletion of SDF-1 gene resulted in defects of B-cell lymphopoiesis and bone marrow myelopoiesis. SDF-1 has been shown to be chemotactic for lymphocytes. In addition, SDF-1 was recently reported to be a ligand for CXCR4 (LESTR/fusin), a co-receptor for HIV-1 entry into T cells. SDF-1 binding to CXCR4 inhibits HIV-1 entry.

**APPLICATION AND SPECIFICITY:**  
 The antibody can be used for Western blot analysis (1  $\mu$ g/ml), immunoprecipitation (4-8  $\mu$ g/ml), and immunohistochemistry (10-20  $\mu$ g/ml). However, the optimal conditions should be determined individually. Cross-reactivity to SDF-1 $\beta$  of other species has not been determined.



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