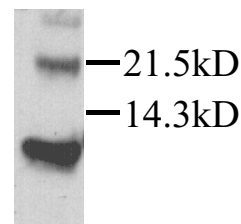


Purified Rabbit Anti-mouse SDF-1 α **Catalog Number:** TP201**Lot Number:** 020418**Content:** Protein A purified rabbit IgG, 200 μ g,
with 0.1% sodium azide, lyophilized.(Reconstitute to 1 mg/ml by adding 200 μ l H₂O)

Detection of mouse recombinant SDF-1 α by Western blot

Product Description and Usage: For research use only. This polyclonal antibody, which reacts with both mouse and rat SDF-1 α , was generated using *E. coli*-expressed mouse SDF-1 α as an immunogen. The tested titer for Western blot is 1:1,000, immunoprecipitation, 1:300-500; and immunohistochemistry, 1:100-500.

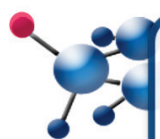
Cross-reactivity to SDF-1 α of other species has not been determined.

Storage Condition: 4°C for short term storage or -20°C in small aliquots for long term storage. Avoid repeated freeze and thaw.

Background: SDF-1 α (stromal cell-derived factor- α)¹, also known as pre-B-cell growth-stimulating factor (PBSF)², is a 70-amino acid CXC chemokine originally cloned from a bone marrow stromal cell line¹. Targeted deletion of SDF-1 gene resulted in defects of B-cell lymphopoiesis and bone marrow myelopoiesis³. SDF-1 has been shown to be chemotactic for lymphocytes⁴. 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^{5,6}. SDF-1 binding to CXCR4 inhibits HIV-1 entry^{5,6}.

References:

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4. Bleul. C.C. et al. (1996) A highly efficacious lymphocyte chemoattractant, stromal cell-derived factor 1 (SDF-1). *J. EXP. Med.* 184:1101-1109.
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