



Anti-Human SDF-1 beta

20150223ML



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	102-P83G
Size:	100 µg
Lot. No.:	According to product label

Preparation: Produced from sera of goats pre-immunized with highly pure (>98%) recombinant human SDF-1β. Anti-Human SDF-1β specific antibody was purified by affinity chromatography employing immobilized human SDF-1β matrix.

Target Background

Synonyms (Target):	CXCL12; IRH; PBSF; SDF1; TLSF; SDF1A; SDF1B; TPAR1; SCYB12
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SDF-1α and β are stromal derived CXC chemokines, and signal through the CXCR4 receptor. SDF-1α and β 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. Recombinant human SDF-1β is an 8.5 kDa protein containing 72 amino acid residues.

Database References Target

Protein RefSeq:	NP_954637.1
Uniprot ID:	P48061
mRNA RefSeq:	NM_199168.3

Product Specifications

Species reactivity	Human
Clone/Ab feature	Goat IgG
Cross reactivity	Human
Host	Goat
Clonality	Polyclonal Antibody
Purification	Antigen-affinity purified
Immunogen	Recombinant Human SDF-1-beta
Formulation	lyophilized from PBS
Reconstitution buffer	water

Reconstitution: Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

Stability: The lyophilized antibody is stable for at least 2 years from date of receipt at -20°C. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.



AVOID REPEATED FREEZE AND THAW CYCLES!

Applications

Western Blot: To detect human SDF-1β 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 human SDF-1β is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.

ELISA: To detect human SDF-1β by sandwich ELISA (using 100 µl/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 an appropriate secondary conjugated antibody, allows the detection of at least 0.2 - 0.4 ng/well of recombinant human SDF-1β.

Immunohistochemistry: This antibody stained formalin-fixed, paraffin-embedded sections of human pancreas malignant adenocarcinoma.

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!