# Porcine Stromal Cell Derived Factor 1 (SDF1) ELISA Kit | SDF1 elisa kit

Pig Stromal Cell Derived Factor 1 (SDF1) ELISA Kit

| CATALOG # | REACTIVITY |
|---|---|
| **AAA182938** | **Porcine** |

## PRODUCT SYNONYMS

Stromal Cell Derived Factor 1 (SDF1); Pig Stromal Cell Derived Factor 1 (SDF1) ELISA Kit; CXCL12; PBSF; P-BSF; SCYB12; SDF1-A; SDF1-B; SDF1A; SDF1B; TLSF-A; TLSF-B; TPAR1; Pre-B Cell Growth-Stimulating Factor; Chemokine C-X-C-Motif Ligand 12; SDF1 elisa kit

## PRODUCT SPECIFICATIONS

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| **Reactivity** | Porcine |
| **Specificity** | This assay has high sensitivity and excellent specificity for detection of SDF1. No significant cross-reactivity or interference between SDF1 and analogues was observed. |
| **Sequence Length** | 89 |
| **Assay Type** | Quantitative Sandwich |
| **Samples** | Porcine serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids |
| **Detection Range** | 0.156-10ng/mL |
| **Sensitivity** | < 0.059ng/mL |
| **Intra-assay Precision** | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level SDF1 were tested 20 times on one plate, respectively. Intra-Assay: CV<10% |
| **Inter-assay Precision** | Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level SDF1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12% |
| **Preparation and Storage** | The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.<br>To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end. |

## ADDITIONAL INFORMATION

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| **Related Product Information for SDF1 elisa kit** | Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to SDF1. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to SDF1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain SDF1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of SDF1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.<br><br>Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of SDF1 in porcine serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids. |

## NCBI AND UNIPROT INFORMATION

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| **NCBI GI #** | 40316924 |

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| **NCBI GeneID** | 6387 |
| **NCBI Accession #** | NP_954637.1 |
| **NCBI GenBank Nucleotide #** | NM_199168.3 |
| **UniProt Accession #** | P48061; Q2L985; Q2L986; Q2L988; Q5IT36; Q6ICW0; Q9H554; B2R4G0; E7EVL0; H7BYN8 |
| **Molecular Weight** | 11,004 Da |
| **NCBI Official Full Name** | stromal cell-derived factor 1 isoform alpha |
| **NCBI Official Synonym Full Names** | C-X-C motif chemokine ligand 12 |
| **NCBI Official Symbol** | CXCL12 |
| **NCBI Official Synonym Symbols** | IRH; PBSF; SDF1; TLSF; TPAR1; SCYB12 |
| **NCBI Protein Information** | stromal cell-derived factor 1 |
| **UniProt Protein Name** | Stromal cell-derived factor 1 |
| **UniProt Gene Name** | **CXCL12** |
| **UniProt Synonym Gene Names** | SDF1; SDF1A; SDF1B; SDF-1; hSDF-1; IRH; hIRH; PBSF |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/porcine-elisa-kits/stromal-cell-derived-factor-1-sdf1/182938