

## Polyclonal Antibody to CXCL12 / SDF1 (alpha) - Biotin

<b>Alternate names:</b>	C-X-C motif chemokine 12, IRH, Intercrine reduced in hepatomas, PBSF, Pre-B cell growth-stimulating factor, SDF1A, SDF1B, Stromal cell-derived factor 1, HIRH
<b>Catalog No.:</b>	AP33448BT-N
<b>Quantity:</b>	50 µg
<b>Background:</b>	SDF1 alpha and 1 beta are small cytokines that belong to the intercrine family, members of which activate leukocytes and are often induced by proinflammatory stimuli such as lipopolysaccharide, TNF or IL1. SDF1 alpha has been shown to be chemotactic for lymphocytes and is recently reported to be a ligand for CXCR4 (LESTR/fusin), a co-receptor for HIV1 entry into T cells. SDF-1 binding to CXCR4 inhibits HIV1 entry.
<b>Uniprot ID:</b>	<a href="#">Q9QZD1</a>
<b>NCBI:</b>	<a href="#">NP_071513.1</a>
<b>GenID:</b>	<a href="#">24772</a>
<b>Host:</b>	Rabbit
<b>Immunogen:</b>	Highly pure (>98%) E.coli derived recombinant Rat SDF1-alpha (CXCL12) <i>Cat.-No</i> AR08009PU
<b>Format:</b>	<b>State:</b> Lyophilized (sterile filtered) purified Ig fraction <b>Purification:</b> Affinity Chromatography <b>Buffer System:</b> PBS, pH 7.2 without preservatives <b>Label:</b> Biotin <b>Reconstitution:</b> Restore in sterile water to a concentration of 0.1-1.0 mg/ml.
<b>Applications:</b>	<b>Direct ELISA:</b> Using 100 µl/well antibody solution, a concentration of ~1.0 µg/ml is required. This biotinylated polyclonal antibody allows the detection of at least 0.2-0.4 ng/well of recombinant Rat SDF-1-alpha. <b>Sandwich ELISA:</b> Using 100 µl/well antibody solution, a concentration of 0.25-1.0 µg/ml is required. In conjunction with Purified Anti-Rat SDF1-alpha ( <i>Cat.-No</i> AP33448PU) as a Capture antibody, it allows the detection of at least 0.2-0.4 ng/well of recombinant Rat SDF1-alpha. <b>Western Blot:</b> 0.1-0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant Rat SDF-1α is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody detects Rat Stromal Cell Derived Factor-1 alpha. Other species not tested.
<b>Add. Information:</b>	Centrifuge vial prior to opening!

**Storage:**

Store lyophilized at 2-8°C for 6 months or at -20°C long term.  
After reconstitution store the antibody undiluted at 2-8°C for one month  
or (in aliquots) at -20°C long term.  
Avoid repeated freezing and thawing.  
Shelf life: one year from despatch.