

Datasheet for ABIN116457 **anti-CXCL12 antibody**



[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	CXCL12
Reactivity:	Mouse
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This CXCL12 antibody is un-conjugated
Application:	Western Blotting (WB), Enzyme Immunoassay (EIA), Neutralization (Neut)

Product Details

Immunogen:	Highly pure (>98%) E.coli derived recombinant Mouse SDF-1 alpha (Cat.-No PA152) Remarks: Molecular Weight: ~150 kDa
Specificity:	Reacts with Mouse Stromal Cell Derived Factor-1 alpha (SDF-1 alpha). Other species not tested.
Purification:	Affinity Chromatography employing immobilized Murine SDF-1α matrix

Target Details

Target:	CXCL12
Alternative Name:	CXCL12 / SDF1 (CXCL12 Products)
Background:	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

Target Details

	into T cells. SDF-1 binding to CXCR4 inhibits HIV1 entry.Synonyms: C-X-C motif chemokine 12, IRH, Interocrine reduced in hepatomas, PBSF, Pre-B cell growth-stimulating factor, SDF1A, SDF1B, Stromal cell-derived factor 1, hIRH
Gene ID:	20315
NCBI Accession:	NP_001012495
UniProt:	P40224
Pathways:	Regulation of Cell Size , CXCR4-mediated Signaling Events , Negative Regulation of intrinsic apoptotic Signaling

Application Details

Application Notes:	Neutralization: To yield one-half maximal inhibition [ND50] of the biological activity of Murine SDF-1 alpha (100 ng/mL), a concentration of 2.5-3.5 µg/mL of this antibody is required. Sandwich ELISA: To detect Mouse SDF-1 alpha by direct ELISA (using 100 µL/well antibody solution) a concentration of at least 0.5 µg/mL of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of 0.2-0.4 ng/well of recombinant Mouse SDF-1 alpha. Western Blot: To detect Mouse SDF-1 alpha 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 mSDF-1 alpha 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.
Restrictions:	For Research Use only

Handling

Reconstitution:	Restore in sterile water to a concentration of > 0.2 mg/mL.
Buffer:	PBS, pH 7.2 without preservatives
Preservative:	Without preservative
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody prior to reconstitution at -20 °C. Following reconstitution the antibody can be stored at 2-8 °C for one month or at -20 °C for longer.