

Datasheet for ABIN116233 **anti-CXCL12 antibody**



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Overview

Quantity:	50 µg
Target:	CXCL12
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This CXCL12 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA), Functional Studies (Func)

Product Details

Immunogen:	E. Coli derived Recombinant recombinant Human SDF-1 beta
Isotype:	IgG
Specificity:	Reacts with Stromal Cell Derived Factor-1 beta (SDF-1 beta).
Cross-Reactivity (Details):	Species reactivity (tested):Human.
Purification:	Affinity Chromatography.

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

Target Details

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. Synonyms: 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

Molecular Weight:	approx. 150 kDa
Gene ID:	6387
NCBI Accession:	NP_000600
UniProt:	P48061
Pathways:	Regulation of Cell Size , CXCR4-mediated Signaling Events , Negative Regulation of intrinsic apoptotic Signaling

Application Details

Application Notes:	Indirect ELISA: To detect Human SDF-1 beta by Indirect 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 Human SDF-1 beta. Sandwich ELISA: To detect Human SDF-1 beta 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 Biotinylated Anti-Human SDF-1 beta (PP1068B1 or PP1068B2) as a detection antibody, allows the detection of at least 0.2-0.4 ng/well of recombinant Human SDF-1 beta. Western Blot: To detect Human SDF-1 beta 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 hSDF-1 beta 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:	Centrifuge vial prior to opening! Restore in sterile water to a concentration of 0.1-1.0 mg/mL.
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Handling

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.