Datasheet for ABIN116227

anti-CXCL12 antibody (Biotin)

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1 Publication

Overview

Quantity:	25 µg
Target:	CXCL12
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CXCL12 antibody is conjugated to Biotin
Application:	Western Blotting (WB), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Highly pure (>98%) E.coli derived recombinant Human SDF1-alpha.
Specificity:	Recognizes Stromal Cell Derived Factor-1 alpha (SDF-1 alpha).
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 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,

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Target Details

	IRH, Intercrine reduced in hepatomas, PBSF, Pre-B cell growth-stimulating factor, SDF1A, SDF1B, Stromal cell-derived factor 1, hIRH
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:	ELISA: To detect hSDF-1alpha by direct ELISA (using 100 µL/well antibody solution) aconcentration of 0.25 - 1.0 µg/mL of this antibody is required. This antibody, in conjunctionwith compatible secondary reagents, allows the detection of at least 0.2 - 0.4 ng/well ofrecombinant hSDF-1alpha. To detect hSDF-1alpha by sandwich ELISA (using 100 µL/well antibody solution) aconcentration of 0.25 - 1.0 µg/mL of this antibody is required. This antibody, in conjunctionwith a polyclonal Anti-Human SDF-1alpha (PP1067P) as a capture antibody, allows thedetection of at least 0.2 - 0.4 ng/well of recombinant hSDF-1alpha. Western Blot: To detect hSDF-1alpha by Western Blot analysis this antibody can be used at aconcentration of 0.1 - 0.2 µg/mL. Used in conjunction with compatible secondary reagentsthe detection limit for recombinant hSDF-1alpha is 1.5 - 3.0 ng/lane, under either reducingor non-reducing conditions.
Restrictions:	For Research Use only

Handling

Reconstitution:	Restore in sterile PBS containing 0.1 % BSA to a concentration of 0.1-1.0 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.

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Publications

Product cited in:	Niv, Keiner, Krishna, Witte, Lie, Redecker: "Aberrant neurogenesis after stroke: a retroviral cell labeling study." in: **Stroke; a journal of cerebral circulation**, Vol. 43, Issue 9, pp. 2468-75, (2012) (PubMed).
	Suzuki, Mogami, Ihara, Urano: "Unique secretory dynamics of tissue plasminogen activator and its modulation by plasminogen activator inhibitor-1 in vascular endothelial cells." in: **Blood**, Vol. 113, Issue 2, pp. 470-8, (2009) (PubMed).

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