

Datasheet for ABIN116229
anti-CXCL12 antibody



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1 Publication

Overview

Quantity:	50 µg
Target:	CXCL12
Reactivity:	Human
Host:	Rabbit
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:	Highly pure (>98%) E.coli derived recombinant Human SDF1-alpha.
Specificity:	This antibody detects Human Stromal Cell Derived Factor-1 alpha. Other species not tested.
Purification:	Affinity Chromatography employing immobilized Human SDF1a 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:	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:	Neutralization: To yield one-half maximal inhibition [ND50] of the biological activity of hSDF1 α (100 ng/mL),a concentration of 2-4 μ g/mL of this antibody is required. ELISA: Indirect: Using 100 μ L/well antibody solution, a concentration of 0.5-2.0 μ g/mL is required. In conjunction with compatible secondary reagents, it allows the detection of at least 0.2 -0.4 ng/well of recombinant hSDF-1 α . Sandwich: Using 100 μ L/well antibody solution, a concentration of 0.5 - 2.0 μ g/mL isrequired. In conjunction with Biotinylated Anti-Human SDF-1 α (PP1067B) as a detectionantibody, it allows the detection of at least 0.2-0.4 ng/well of recombinant hSDF-1 α . Western Blot: 0.1-0.2 μ g/mL. Used in conjunction with compatible secondary reagents the detection limitfor recombinant hSDF-1 α is 1.5-3.0 ng/lane, under either reducing or non-reducingconditions.
Restrictions:	For Research Use only

Handling

Reconstitution:	Restore in sterile water to a concentration of 0.1-1.0 mg/mL.
Buffer:	PBS, pH 7.2 without preservatives.
Preservative:	Without preservative
Storage:	4 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C. DO NOT FREEZE! This product is photosensitive and should protected from light.

Publications

Product cited in: Schlaepfer, Audigé, Joller, Speck: "TLR7/8 triggering exerts opposing effects in acute versus latent HIV infection." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 176, Issue 5, pp. 2888-95, (2006) ([PubMed](#)).