

Datasheet for ABIN116455 **anti-CXCL12 antibody (Biotin)**

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Overview

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

Product Details

Immunogen:	Highly pure (>98%) recombinant Mouse SDF-1 alpha. 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.

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,

Target Details

	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:	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:	Direct ELISA: To detect Mouse SDF-1 alpha by direct ELISA (using 100 µL/well antibody solution) this antibody can be used at a concentration of 0.15-0.30 µg/mL. Used in conjunction with compatible secondary reagents, allows the detection of at least 0.2 ng/well of recombinant Mouse SDF-1 alpha. Sandwich ELISA: To detect Mouse SDF-1 alpha by sandwich ELISA (using 100 µL/well antibody solution) a concentration of 0.25-1.0 µg/mL of this antibody is required. This biotinylated polyclonal antibody, in conjunction with Anti-Mouse SDF-1 alpha (PP1217P1 or PP1217P2) as a capture antibody, allows the detection of at least 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 Mouse SDF-1 alpha is 1.5-3.0 ng/lane, under either reducing or 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.