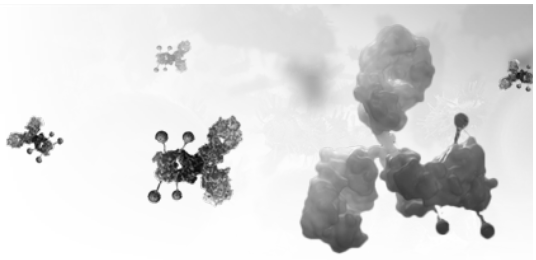

Human Chemokine Ligand 12 (DAG345)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	SDF-1 (stromal cell-derived factor-1) is small cytokinebelonging to the chemokine family that is officially designated Chemokine(C-X-C motif) ligand 12 (CXCL12) Stromal cell-derived factors 1-alpha and1-beta are small cytokines that belong to the intercrine family, members ofwhich activate leukocytes and are often induced by proinflammatory stimulisuch as lipopolysaccharide, TNF, or IL1. The intercrines are characterized bythe presence of 4 conserved cysteines that form 2 disulfide bonds. They canbe classified into 2 subfamilies. In the CC subfamily, which includes betachemokine, the cysteine residues are adjacent to each other. In the CXCsubfamily, which includes alpha chemokine, they are separated by anintervening amino acid. The SDF1 proteins belong to the latter group
Species	Human
Conjugate	Unconjugated
Applications	Biological activity determined by its ability to chemoattracthuman peripheral T cells activated with PHA and Interleukin-2 using a concentrationof 20-80ng/ml. Each laboratory should determine an optimum working titer foruse in its particular application.
Format	Purified, Lyophilized We recommend a quick spin followed byreconstitution in water to a concentration of 0.1-1.0 mg/ml. This solution canthen be diluted into other aqueou buffers and stored at 2-8°C for one weekor –20°C for future use.
Concentration	Notapplicable
Buffer	Notapplicable
Preservative	None
Storage	2-8°C short term, -20°C long term

BACKGROUND

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

Introduction	This gene encodes a stromal cell-derived alpha chemokine member of the intercrine family. The encoded protein functions as the ligand for the G-protein coupled receptor, chemokine (C-X-C motif) receptor 4, and plays a role in many diverse cellular functions, including embryogenesis, immune surveillance, inflammation response, tissue homeostasis, and tumor growth and metastasis. Mutations in this gene are associated with resistance to human immunodeficiency virus type 1 infections. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2013]
Keywords	CXCL12; chemokine (C-X-C motif) ligand 12; IRH; PBSF; SDF1; TLSF; TPAR1; SCYB12; stromal cell-derived factor 1; intercrine reduced in hepatomas; pre-B cell growth-stimulating factor

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221