

Human SDF-1/CXCL12 Antibody Pair Set

Catalog No.	E-KAB-0004	Applications	ELISA
Synonyms	SDF1, CXCL12, IRH, PBSF, SCYB12, TLSF, TPAR1		

Kit components & Storage

Title	Specifications	Storage
Human SDF-1/CXCL12 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze / thaw cycles.
Human SDF-1/CXCL12 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze / thaw cycles.

Note: Centrifuge before opening to ensure complete recovery of vial contents.

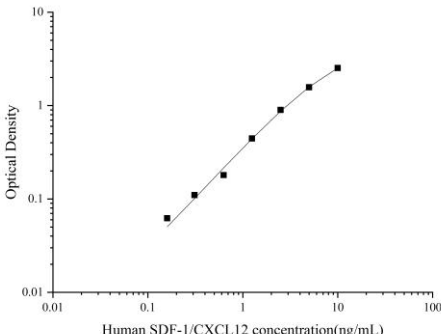
Product Information

Items		Characteristic (E-KAB-0004)	
		Human SDF-1/CXCL12 Capture Antibody	Human SDF-1/CXCL12 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human SDF-1/CXCL12 protein	Recombinant Human SDF-1/CXCL12 protein
	Swissprot	P48061	
Product details	Reactivity	Human	Human
	Host	Mouse	Goat
	Conjugation	Unconjugated	Biotin
	Concentration	0.5mg/mL	/
	Buffer	PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4	PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4
	Purify	Protein A or G	Antigen Affinity
	Specificity	Detects Human SDF-1/CXCL12 in ELISAs.	

For Research Use Only

Applications

Human SDF-1/CXCL12 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4μg/mL	Human SDF-1/CXCL12 Capture Antibody	 <table><caption>Approximate data points from the standard curve</caption><thead><tr><th>Human SDF-1/CXCL12 concentration (ng/mL)</th><th>Optical Density</th></tr></thead><tbody><tr><td>0.1</td><td>0.05</td></tr><tr><td>0.2</td><td>0.1</td></tr><tr><td>0.5</td><td>0.2</td></tr><tr><td>1</td><td>0.4</td></tr><tr><td>2</td><td>0.8</td></tr><tr><td>5</td><td>1.5</td></tr><tr><td>10</td><td>2.5</td></tr></tbody></table>	Human SDF-1/CXCL12 concentration (ng/mL)	Optical Density	0.1	0.05	0.2	0.1	0.5	0.2	1	0.4	2	0.8	5	1.5	10	2.5
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ELISA Detection	1:1000-1:10000	Human SDF-1/CXCL12 Detection Antibody (Biotin)																	

Note: This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

Background

This gene encodes a stromal cell-derived alpha chemokine member of the intercrine family. This gene product and its receptor CXCR4 can activate lymphocytes and have been implicated in the metastasis of some cancers such as breast cancer. 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.