

Human SCFR Antibody Pair Set

Catalog No.	E-KAB-0720	Applications	ELISA
Synonyms	Proto-oncogene c-Kit;tyrosine-protein kinase Kit;CD117;KIT;PBT		

Kit components & Storage

Title	Specifications	Storage
Human SCFR Capture Antibody	1 vial, 100 µg	Store at -20℃. Avoid freeze / thaw cycles.
Human SCFR Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20℃. Avoid freeze / thaw cycles.

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

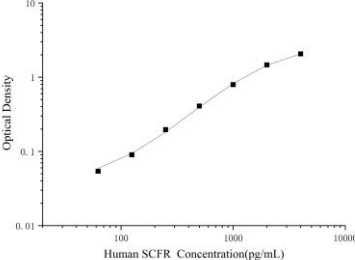
Product Information

Items		Characteristic (E-KAB-0720)	
		Human SCFR Capture Antibody	Human SCFR Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human SCFR protein	Recombinant Human SCFR protein
	Swissprot	P10721	
Product details	Reactivity	Human	Human
	Host	Goat	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	Affinity purification	Affinity purification
	Specificity	Detects Human SCFR in ELISAs.	

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Applications

Human SCFR Sandwich ELISA Assay

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4ug/mL	Human SCFR Capture Antibody	 <table><caption>Standard Curve Data (Approximate)</caption><thead><tr><th>Human SCFR Concentration (pg/mL)</th><th>Optical Density</th></tr></thead><tbody><tr><td>100</td><td>0.05</td></tr><tr><td>200</td><td>0.1</td></tr><tr><td>500</td><td>0.2</td></tr><tr><td>1000</td><td>0.5</td></tr><tr><td>2000</td><td>1.0</td></tr><tr><td>5000</td><td>2.0</td></tr><tr><td>10000</td><td>5.0</td></tr></tbody></table>	Human SCFR Concentration (pg/mL)	Optical Density	100	0.05	200	0.1	500	0.2	1000	0.5	2000	1.0	5000	2.0	10000	5.0
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ELISA Detection	1:1000-1:10000	Human SCFR Detection Antibody (Biotin)																	

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

Background

CD117 is a 145 kD immunoglobulin superfamily member, also known as c-Kit and stem cell factor receptor (SCFR). It is a transmembrane tyrosine-kinase receptor that binds the c-Kit ligand (also known as steel factor, stem cell factor, and mast cell growth factor). CD117 is expressed on hematopoietic stem cells (including multipotent hematopoietic stem cells, progenitors committed to myeloid and/or erythroid lineages, and T and B cell precursors), mast cells, and acute myeloid leukemia (AML) cells. CD117 interaction with its ligand is critical for the development of hematopoietic stem cells.

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