

Human SCC Antibody Pair Set

Catalog No. E-KAB-0286

Applications

ELISA

Synonyms squamous cell carcinoma

Kit components & Storage

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

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

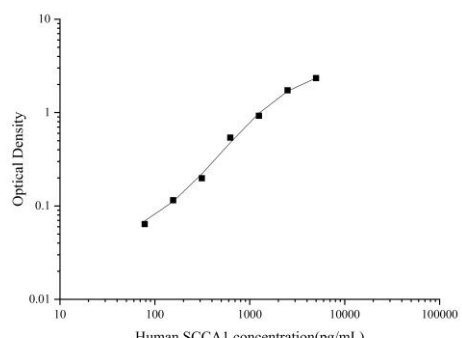
Product Information

Items		Characteristic (E-KAB-0286)	
		Human SCC Capture Antibody	Human SCC Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human PG I protein	Recombinant Human PG I protein
	Swissprot	/	
Product details	Reactivity	Human	Human
	Host	Mouse	Mouse
	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	Protein A
	Specificity	Detects Human SCC in ELISAs.	

For Research Use Only

Applications

Human SCC Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4μg/mL	Human SCC Capture Antibody	 <table><caption>Approximate data points from the standard curve</caption><thead><tr><th>Human SCCA1 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>3.0</td></tr></tbody></table>	Human SCCA1 concentration (pg/mL)	Optical Density	100	0.05	200	0.1	500	0.2	1000	0.5	2000	1.0	5000	2.0	10000	3.0
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ELISA Detection	1:1000-1:10000	Human SCC Detection Antibody (Biotin)																	

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

Background

Serpin B3, also known as Squamous Cell Carcinoma Antigen-1 (SCCA1), is a member of the serpin superfamily of serine protease inhibitors (1). Serpins primarily inhibit serine proteases and some are known to inhibit caspases and papain-like cysteine proteases (1). Serpin B3 belongs to the subgroup ovalbumin-related serpins which are involved in the regulation of apoptosis, inflammation, angiogenesis and embryogenesis (2). Serpin B3 was initially isolated from human cervical squamous cell tissue. It is a tumor marker for squamous cell carcinomas in various areas including the cervix, head, neck and lung (3). Unlike typical serpins, Serpin B3 shows inhibitory activity against papain-like lysosomal cysteine proteases Cathepsin K, L, and S, while lacking inhibitory activity against serine proteases (4).

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