

Human CA19-9 Antibody Pair Set

Catalog No.	E-KAB-0144	Applications	ELISA
Synonyms	sialylated Lewis(a) Antigen, Cancer Antigen 19-9		

Kit components & Storage

Title	Specifications	Storage
Human CA19-9 Capture Antibody	1 vial, 100 μg	Store at -20°C for one year. Avoid freeze / thaw cycles.
Human CA19-9 Detection Antibody (Biotin)	1 vial, 50 μL	Store at -20°C for one year. Avoid freeze / thaw cycles.

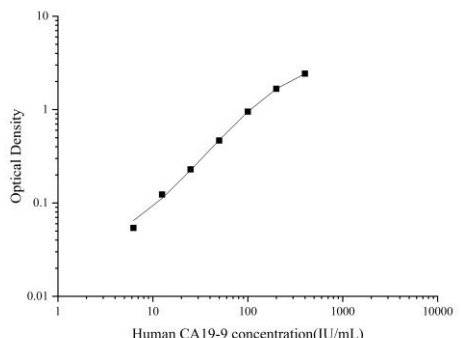
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0144)	
		Human CA19-9 Capture Antibody	Human CA19-9 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Native Protein	Native 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 CA19-9 in ELISAs.	

Applications

Human CA19-9 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4µg/mL	Human CA19-9 Capture Antibody	 <p>The graph is a log-log plot. The x-axis is labeled 'Human CA19-9 concentration(IU/mL)' and ranges from 1 to 10000. The y-axis is labeled 'Optical Density' and ranges from 0.01 to 10. The data points form a straight line with a positive slope, indicating a power-law relationship between concentration and optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human CA19-9 concentration (IU/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr><td>10</td><td>0.1</td></tr> <tr><td>20</td><td>0.2</td></tr> <tr><td>50</td><td>0.5</td></tr> <tr><td>100</td><td>1.0</td></tr> <tr><td>200</td><td>2.0</td></tr> <tr><td>500</td><td>5.0</td></tr> <tr><td>1000</td><td>10.0</td></tr> </tbody> </table>	Human CA19-9 concentration (IU/mL)	Optical Density	10	0.1	20	0.2	50	0.5	100	1.0	200	2.0	500	5.0	1000	10.0
Human CA19-9 concentration (IU/mL)	Optical Density																		
10	0.1																		
20	0.2																		
50	0.5																		
100	1.0																		
200	2.0																		
500	5.0																		
1000	10.0																		
ELISA Detection	1:1000-1:10000	Human CA19-9 Detection Antibody (Biotin)																	

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

Background

Mucin glycoprotein is a Sialyl Lewis A structure which is synthesized from type 1 blood group precursor chains and is present in individuals expressing the Lewis A and/or Lewis B blood group antigens. In normal tissues, sialyl Lewis A antigen is present in ductal epithelium of the breast, kidney, salivary gland, and sweat glands. Its expression is greatly enhanced in serum as well as in the majority of tumor cells in gastrointestinal (GI) carcinomas, including adenocarcinomas of the stomach, intestine, and pancreas. Preoperative elevated CA19-9 levels in patients with stage I pancreatic carcinoma decrease to normal values following surgery. When used serially, CA19-9 can predict recurrence of disease prior to radiographic or clinical findings.