

Human CEA Antibody Pair Set

Catalog No.	E-KAB-0016	Applications	ELISA
Synonyms	CD66E, CD66, CEACAM5, Carcinoembryonic Antigen-related Cell Adhesion Molecule 5		

Kit components & Storage

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

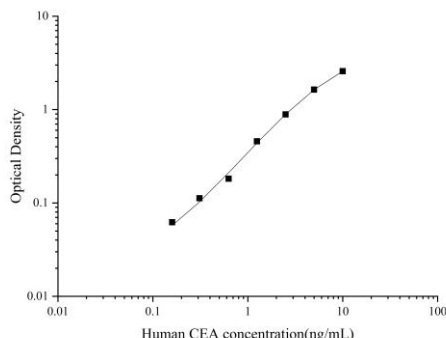
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0016)	
		Human CEA Capture Antibody	Human CEA Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human CEA protein	Recombinant Human CEA protein
	Swissprot	P06731	
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 or G	Protein A or G
	Specificity	Detects Human CEA in ELISAs.	

Applications

Human CEA Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4µg/mL	Human CEA Capture Antibody	 <p>The graph is a log-log plot of Optical Density versus Human CEA concentration (ng/mL). The x-axis ranges from 0.01 to 100 ng/mL, and the y-axis ranges from 0.01 to 10. The data points form a straight line, 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 CEA 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>1.6</td> </tr> <tr> <td>10</td> <td>3.2</td> </tr> </tbody> </table>	Human CEA concentration (ng/mL)	Optical Density	0.1	0.05	0.2	0.1	0.5	0.2	1	0.4	2	0.8	5	1.6	10	3.2
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ELISA Detection	1:1000-1:10000	Human CEA Detection Antibody (Biotin)																	

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

Background

Carcinoembryonic antigen-related cell adhesion molecule 5 (CEACAM5) also known as CD66e (Cluster of Differentiation 66e), is a human gene. Members of the CEACAM subfamily, including CEACAM5, belong to the CEA gene family. CD66E is a well known tumor marker and a heavily glycosylated GPI-linked cell surface molecule.