

## Human CEACAM1 Antibody Pair Set

**Catalog No.** E-KAB-0418

**Applications**

ELISA

**Synonyms** BGP;BGPI;BGPI

### Kit components & Storage

Title	Specifications	Storage
Human CEACAM1 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze/thaw cycles.
Human CEACAM1 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.

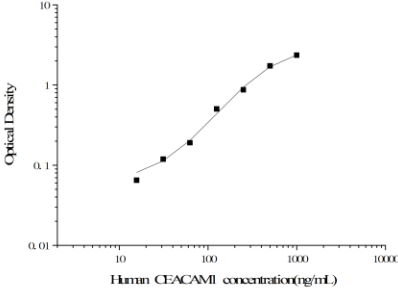
### Product Information

Items		Characteristic (E-KAB-0418)	
		Human CEACAM1 Capture Antibody	Human CEACAM1 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human CEACAM1 protien	Recombinant Human CEACAM1 protien
	Swissprot	P13688	
Product details	Reactivity	Human	Human
	Host	Goat	Goat
	Conjugation	Unconjugated	Biotin
	Concentration	0.5 mg/mL	/
	Buffer	PBS with 0.04% Proclin 300; 50% glycerol; pH 7.5	PBS with 0.04% Proclin 300; 1% protective protein; 50% glycerol; pH 7.5
	Purify	Antigen Affinity	Antigen Affinity
Specificity	Detects Human CEACAM1 in ELISAs.		

**For Research Use Only**

## Applications

### Human CEACAM1 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4 µg/mL	Human CEACAM1 Capture Antibody	 <table border="1"> <caption>Standard Curve Data (Approximate)</caption> <thead> <tr> <th>Human CEACAM1 concentration (ng/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>0.08</td> </tr> <tr> <td>20</td> <td>0.12</td> </tr> <tr> <td>50</td> <td>0.20</td> </tr> <tr> <td>100</td> <td>0.35</td> </tr> <tr> <td>200</td> <td>0.60</td> </tr> <tr> <td>500</td> <td>1.20</td> </tr> <tr> <td>1000</td> <td>1.80</td> </tr> </tbody> </table>	Human CEACAM1 concentration (ng/mL)	Optical Density	10	0.08	20	0.12	50	0.20	100	0.35	200	0.60	500	1.20	1000	1.80
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ELISA Detection	1:1000-1:10000	Human CEACAM1 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 member of the carcinoembryonic antigen (CEA) gene family, which belongs to the immunoglobulin superfamily. Two subgroups of the CEA family, the CEA cell adhesion molecules and the pregnancy-specific glycoproteins, are located within a 1.2 Mb cluster on the long arm of chromosome 19. Eleven pseudogenes of the CEA cell adhesion molecule subgroup are also found in the cluster. The encoded protein was originally described in bile ducts of liver as biliary glycoprotein. Subsequently, it was found to be a cell-cell adhesion molecule detected on leukocytes, epithelia, and endothelia. The encoded protein mediates cell adhesion via homophilic as well as heterophilic binding to other proteins of the subgroup.