

Datasheet for ABIN2859230 CEACAM1 ELISA Kit

Image



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Overview

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Quantity:	96 tests
Target:	CEACAM1
Binding Specificity:	AA 35-428
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	312-20.000 pg/mL
Minimum Detection Limit:	312 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human CEACAM1
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: Q35-G428
Specificity:	Expression system for standard: NSO Immunogen sequence: Q35-G428
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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Product Details

Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette
	tips. Multichannel pipettes are recommended in the condition of large amount of samples in the
	detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation
	of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl

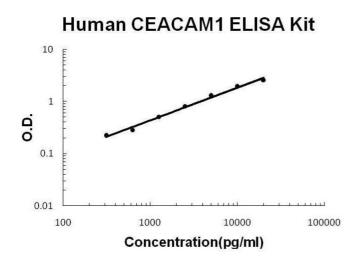
Target Details

Target:	CEACAM1
Alternative Name:	CEACAM1 (CEACAM1 Products)
Background:	Background: CEACAM1, also known as CD66a (Cluster of Differentiation 66a), is a human
	glycoprotein encoded by a gene. This gene encodes a member of the carcinoembryonic antige
	(CEA) gene family, which belongs to the immunoglobulin superfamily. CEACAM1 is mapped to
	19q13.2 in human. 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. Multiple cellular
	activities have been attributed to the encoded protein, including roles in the differentiation and
	arrangement of tissue three-dimensional structure, angiogenesis, apoptosis, tumor
	suppression, metastasis, and the modulation of innate and adaptive immune responses.
	Synonyms: Carcinoembryonic antigen-related cell adhesion molecule 1,Biliary glycoprotein
	1,BGP-1,CD66a,CEACAM1,BGP, BGP1,
	Full Gene Name: Carcinoembryonic antigen-related cell adhesion molecule 1
	Cellular Localisation: Isoform 1: Cell membrane, Single-pass type I membrane protein.
Gene ID:	634
UniProt:	P13688
Application Details	
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well
	assay was recommended for both standard and sample testing.
Comment:	Sequence similarities: Belongs to the immunoglobulin superfamily. CEA family.
Plate:	Pre-coated
Protocol:	human CEACAM1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent

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Application Details

	assay technology. A monoclonal antibody from mouse specific for CEACAM1 has been
	precoated onto 96-well plates. Standards(NSO, Q35-G428) and test samples are added to the
	wells, a biotinylated detection polyclonal antibody from goat specific for CEACAM1 is added
	subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase
	Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP
	substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to
	produce a blue color product that changed into yellow after adding acidic stop solution. The
	density of yellow is proportional to the human CEACAM1 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 20,000pg/mL, 10,000pg/mL, 5000pg/mL, 2500pg/mL,
	1250pg/mL, 625pg/mL, 312pg/mL human CEACAM1 standard solutions into the precoated 96-
	well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL
	of each properly diluted sample of human cell culture supernates, serum or plasma(heparin,
	EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended
	that each human CEACAM1 standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(ng/ml): 5.14, Standard deviation: 0.185, CV(%): 3.6
	 Sample 2: n=16, Mean(ng/ml): 7.35, Standard deviation: 0.397, CV(%): 5.4
	• Sample 3: n=16, Mean(ng/ml): 12.1, Standard deviation: 0.593, CV(%): 4.9,
	Sample 1: n=24, Mean(ng/ml): 5.36, Standard deviation: 0.295, CV(%): 5.5
	 Sample 2: n=24, Mean(ng/ml): 8.04, Standard deviation: 0.571, CV(%): 7.1
	 Sample 3: n=24, Mean(ng/ml): 13.5, Standard deviation: 0.837, CV(%): 6.2
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months



ELISA

Image 1. Human CEACAM1 PicoKine ELISA Kit standard curve

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