



Datasheet for ABIN1889368

Adipsin ELISA Kit



1 Image

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Overview

Quantity: 96 tests

Target: Adipsin (CFD)

Binding Specificity: AA 26-253

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 CFD

Brand: PicoKine™

Sample Type: Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Urine

Analytical Method: Quantitative

Detection Method: Colorimetric

Immunogen: Expression system for standard: NSO

Immunogen sequence: I26-A253

Specificity: Expression system for standard: NSO

Immunogen sequence: I26-A253

Cross-Reactivity (Details): There is no detectable cross-reactivity with other relevant proteins.

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:	Adipsin (CFD)
Alternative Name:	CFD (CFD Products)
Background:	<p>Protein Function: Factor D cleaves factor B when the latter is complexed with factor C3b, activating the C3bbb complex, which then becomes the C3 convertase of the alternate pathway. Its function is homologous to that of C1s in the classical pathway.</p> <p>Background: Complement factor D(CFD), also called ADIPSIN or FACTOR D, is a protein which in humans is encoded by the CFD gene. The protein encoded by this gene belongs to the trypsin family of peptidases. It is mapped to 19p13.3. The encoded protein is a component of the alternative complement pathway which is best known for its role in humoral suppression of infectious agents. This protein is also a serine protease that is secreted by adipocytes into the bloodstream. Finally, the encoded protein has a high level of expression in fat, suggesting a role for adipose tissue in immune system biology. What's more, Factor D is a serine protease that stimulates glucose transport for triglyceride accumulation in fats cells and inhibits lipolysis.</p> <p>Synonyms: Complement factor D, 3.4.21.46, Adipsin, C3 convertase activator, Properdin factor D, CFD, DF, PFD,</p> <p>Full Gene Name: Complement factor D</p> <p>Cellular Localisation: Secreted.</p>
Gene ID:	1675
UniProt:	P00746
Pathways:	Complement System

Application Details

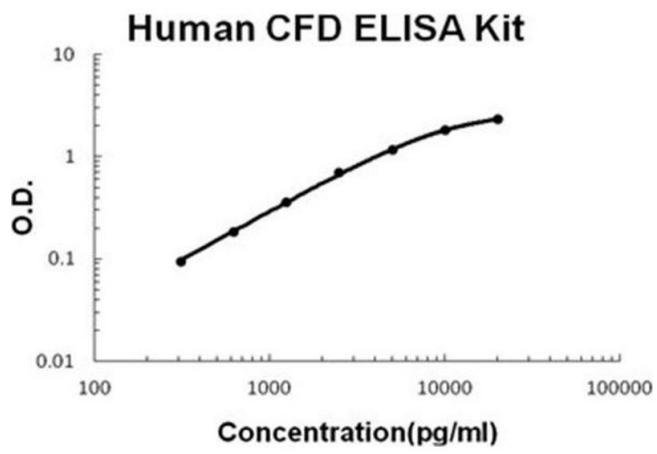
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Comment:	Sequence similarities: Belongs to the peptidase S1 family.

Application Details

Plate:	Pre-coated
Protocol:	human CFD ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CFD has been precoated onto 96-well plates. Standards(NSO, I26-A253) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CFD 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 CFD 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 CFD 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, plasma (heparin, EDTA) or urine to each empty well. See "Sample Dilution Guideline" above for details. We recommend that each human CFD standard solution and each sample is measured in duplicate.
Assay Precision:	<ul style="list-style-type: none">• Sample 1: n=16, Mean(ng/ml): 1.05, Standard deviation: 0.071, CV(%): 6.8• Sample 2: n=16, Mean(ng/ml): 3.42, Standard deviation: 0.195, CV(%): 5.7• Sample 3: n=16, Mean(ng/ml): 8.67, Standard deviation: 0.52, CV(%): 6,• Sample 1: n=24, Mean(pg/ml): 1.32, Standard deviation: 0.115, CV(%): 8.7• Sample 2: n=24, Mean(ng/ml): 3.74, Standard deviation: 0.269, CV(%): 7.2• Sample 3: n=24, Mean(ng/ml): 8.23, Standard deviation: 0.584, CV(%): 7.1
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 CFD PicoKine ELISA Kit standard curve