

Datasheet for ABIN2859251

**Complement Factor H ELISA Kit**[Go to Product page](#)**1** Image

## Overview

Quantity:	96 tests
Target:	Complement Factor H (CFH)
Binding Specificity:	AA 860-1231
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	1.56-100 ng/mL
Minimum Detection Limit:	1.56 ng/mL
Application:	ELISA

## Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Complement H/CFH
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: S860-R1231
Specificity:	NSO, S860-R1231
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	<50pg/mL

## Product Details

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
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## Target Details

Target:	Complement Factor H (CFH)
Alternative Name:	CFH ( <a href="#">CFH Products</a> )
Background:	<p>Protein Function: Factor H functions as a cofactor in the inactivation of C3b by factor I and also increases the rate of dissociation of the C3bBb complex (C3 convertase) and the (C3b)NBB complex (C5 convertase) in the alternative complement pathway.</p> <p>Background: Complement factor H (CFH), originally known as beta-1H globulin, is a serum glycoprotein that regulates the function of the alternative complement pathway in fluid phase and on cellular surfaces. It binds to C3b, accelerates the decay of the alternative pathway convertase C3bBb, and also acts as a cofactor for complement factor I, another C3b inhibitor.</p> <p>The CFH gene is located on chromosome 1q32-q32.1 within a cluster of genes encoding the regulatory complement components of the activation of C3 (RCA for 'regulators of complement activation'). This gene cluster includes decay-accelerating factor (DAF), C4-binding protein (C4BPA and C4BPB), and the factor H-related genes CFHR1, CFHR2, CFHR3, CFHR4, and CFHR5, among others. The gene family has arisen by multiple duplication events.</p> <p>Synonyms: Complement factor H, H factor 1, CFH, HF, HF1, HF2,</p> <p>Full Gene Name: Complement factor H</p> <p>Cellular Localisation: Secreted.</p>
Gene ID:	3075
UniProt:	<a href="#">P08603</a>
Pathways:	<a href="#">Complement System</a> , <a href="#">Cellular Response to Molecule of Bacterial Origin</a>

## 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:	Tissue Specificity: Expressed by the liver and secreted in plasma.
Plate:	Pre-coated

## Application Details

**Protocol:** human CFH ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CFH has been precoated onto 96-well plates. Standards (NSO, S860-R1231) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CFH 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 CFH amount of sample captured in plate.

**Assay Procedure:** Aliquot 0.1 mL per well of the 100 ng/mL, 50 ng/mL, 25 ng/mL, 12.5 ng/mL, 6.25 ng/mL, 3.12 ng/mL, 1.56 ng/mL human CFH 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. It is recommended that each human CFH standard solution and each sample be measured in duplicate.

**Assay Precision:**

- Sample 1: n=16, Mean(ng/ml): 2.32, Standard deviation: 0.12, CV(%): 5.2
- Sample 2: n=16, Mean(ng/ml): 8.15, Standard deviation: 0.47, CV(%): 5.8
- Sample 3: n=16, Mean(ng/ml): 37.66, Standard deviation: 2.37, CV(%): 6.3,
- Sample 1: n=24, Mean(ng/ml): 2.01, Standard deviation: 0.13, CV(%): 6.9
- Sample 2: n=24, Mean(ng/ml): 9.00, Standard deviation: 0.56, CV(%): 6.3
- Sample 3: n=24, Mean(ng/ml): 45.39, Standard deviation: 3.22, CV(%): 7.1

**Restrictions:** For Research Use only

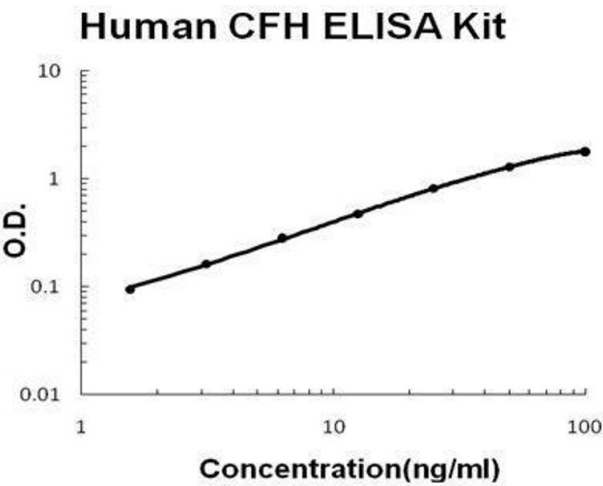
## Handling

**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 Complement H/CFH PicoKine ELISA Kit standard curve