



Human Complement 3,C3 ELISA Kit

Product Code	CSB-E08665h
Abbreviation	C3
Protein Biological Process 1	Tumor marker
Target Name	Complement 3,C3
Uniprot No.	P01024
Alias	N/A
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, cell culture supernates, urine, saliva
Detection Range	4.7 ng/mL-300 ng/mL
Sensitivity	4.031 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Cancer
Quality Control	<p>A microplate reader capable of measuring absorbance at 450 nm, with the correction wavelength set at 540 nm or 570 nm.</p> <p>An incubator can provide stable incubation conditions up to 37°C±5°C.</p> <p>Centrifuge</p> <p>Vortex</p> <p>Squirt bottle, manifold dispenser, or automated microplate washer</p> <p>Absorbent paper for blotting the microtiter plate</p> <p>50-300ul multi-channel micropipette</p> <p>Pipette tips</p> <p>Single-channel micropipette with different ranges</p> <p>100ml and 500ml graduated cylinders</p> <p>Deionized or distilled water</p> <p>Timer</p> <p>Test tubes for dilution</p>
Gene Names	C3
Tag Info	quantitative
Protein Description	Sandwich
Component	A micro ELISA plate --- The 96-well plate has been pre-coated with an anti-human C3 antibody.



Two vials lyophilized standard --- Dilute a bottle of the standard at dilution series, read the OD values, and then draw a standard curve.

One vial HRP-conjugated C3 antibody(100 x concentrate)(120 µl/bottle) --- Bind to the C3 in the samples or standards and react with the substrate to make the solution chromogenic.

One vial Wash Buffer (25x concentrate) (20 ml/bottle) --- Wash away unbound or free substances.

One TMBSubstrate (10 ml/bottle) ---Interact with HRP to elicit a chromogenic reaction.

One vial Stop Solution (10ml/bottle) --- Stop the color reaction. The solution color immediately turns from blue to yellow.

Four Adhesive Strips (For 96 wells) --- Cover the microplate when incubation.

An instruction manual

Description

This Human Complement 3 (C3) ELISA Kit was designed for the quantitative measurement of Human Complement 3 (C3) protein in serum, plasma, cell culture supernates, urine, saliva. It is a Sandwich ELISA kit, its detection range is 4.7 ng/mL-300 ng/mL and the sensitivity is 4.031 ng/mL.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Sample	Intra-Assay Precision			Inter-Assay Precision		
	1	2	3	1	2	3
n	20	20	20	20	20	20
Mean(ng/ml)	37.344	37.161	37.773	37.958	37.283	37.650
SD	0.036	0.033	0.039	0.051	0.056	0.053
CV(%)	3.321	3.053	3.575	4.662	5.171	4.867

Linearity

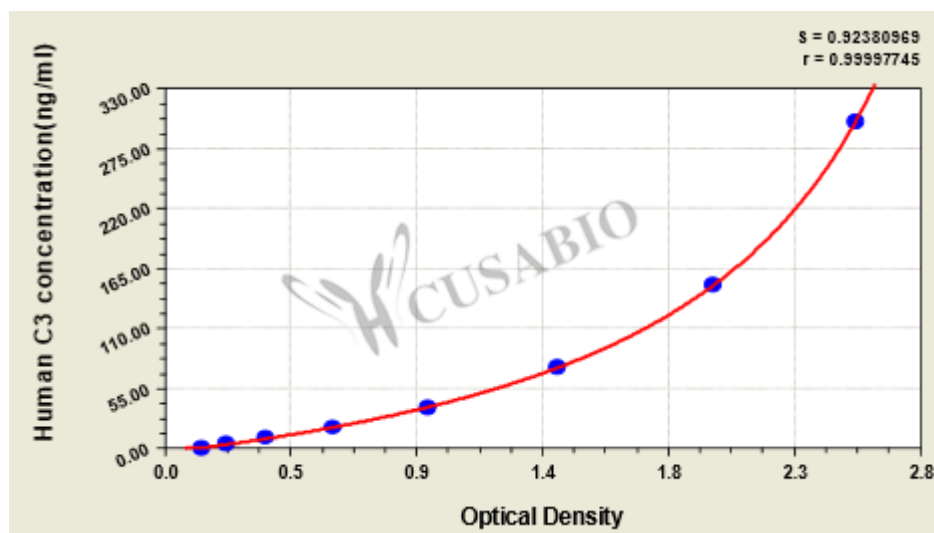
To assess the linearity of the assay, samples were spiked with high concentrations of human C3 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.



	Sample	Serum(n=4)
1:20000	Average %	84
	Range %	80-95
1:40000	Average %	88
	Range %	83-100
1:80000	Average %	92
	Range %	85-107
1:160000	Average %	94
	Range %	89-112

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



ng/ml	OD1	OD2	Average	corrected
0	0.145	0.156	0.151	
4.7	0.241	0.235	0.238	0.088
9.4	0.393	0.368	0.381	0.230
18.75	0.628	0.621	0.625	0.474
37.5	0.986	0.953	0.970	0.819
75	1.509	1.365	1.437	1.287
150	2.010	1.996	2.003	1.853
300	2.550	2.480	2.515	2.365

Msds

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