

Human Complement Component C2 ELISA Kit | C2 elisa kit

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CATALOG #
AAA258336

REACTIVITY
Human

PRODUCT SYNONYMS

Complement Component C2; Human Complement Component C2 ELISA Kit; C2 ELISA Kit; Human; complement component 2; ARMD14 ELISA Kit; CO2 ELISA Kit; C2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	For the quantitative determination of Human Complement Component C2 concentration in serum, or cell culture supernates.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Serum, Cell supernatant
Detection Range	234.38-15000pg/mL
Sensitivity	110.77pg/mL
Conjugation	HRP
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

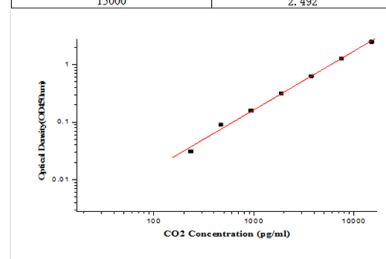
IMAGES

Recombinant human			
IL1	IL2	IL33	IL10
IL8	PDGF	TNF- α	IL4
IL6	IFN- γ	VEGF	MIP-1 β
TIMP1	TIMP2	GM-CSF	SCF

Application Data

This assay recognizes both recombinant and natural Human CO2. Human C1S and C5a were prepared at 300ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed. The factors listed above were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.

Concentration (pg/mL)	Zero standard subtracted OD
0	0
234.375	0.031
468.75	0.091
937.5	0.159
1875	0.315
3750	0.630
7500	1.278
15000	2.492



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for C2 elisa kit	This C2 ELISA Kit, Human is an enzyme-linked immunosorbent assay for the quantitative measurement of Human C2 protein in Serum, Cell supernatant. It contains recombinant Human C2, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: Complement component C2 is part of the classical complement pathway which plays a major role in innate immunity against infection. C2 is a glycoprotein synthesized in liver hepatocytes and several other cell types in extrahepatic tissues. This pathway is triggered by a multimolecular complex C1, and subsequently the single-chain form of C2 is cleaved into two chains referred to C2a and C2b by activated C1. The second component of complement (C2) is a multi-domain serine protease that provides catalytic activity for the C3 and C5 convertases of the classical and lectin pathways of human complement. C4b and C2 was investigated by surface plasmon resonance. C2a containing a serine protease domain combines with complement component C4b to form the C3 convertase C4b2a which is responsible for C3 activation, and leads to the stimulation of adaptive immune responses via Lectin pathway. C2 bound to C4b is cleaved by classical (C1s) or lectin (MASP2) proteases to produce C4bC2a. C2 has the same serine protease domain as C4bC2a but in an inactive zymogen-like conformation, requiring cofactor-induced conformational change for activity. Deficiency of C2 (C2D) is the most common genetic deficiency of the complement system, and two types of C2D have been recognized in the context of specific MHC haplotypes. C2D in human is reported to increase susceptibility to infection, and is associated with certain autoimmune diseases, such as rheumatological disorders.
References	Laich A, et al. (2002) Complement C4bC2 complex formation: an investigation by surface plasmon resonance. Biochim Biophys Acta. 1544(1-2): 96-112. Halili MA, et al. (2009) Complement component C2, inhibiting a latent serine protease in the classical pathway of complement activation. Biochemistry. 48(35): 8466-72. Krishnan V, et al. (2009) The structure of C2b, a fragment of complement component C2 produced during C3 convertase formation. Acta Crystallogr D Biol Crystallogr. 65(Pt 3): 266-74.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.