

Human CD21 ELISA Kit | CD21 elisa kit

Human CD21 ELISA Kit

CATALOG #
AAA258390

REACTIVITY
Human

PRODUCT SYNONYMS

CD21; Human CD21 ELISA Kit; CD21 ELISA Kit; Human; complement component (3d/Epstein Barr virus) receptor 2; C3DR ELISA Kit; CR ELISA Kit; CVID7 ELISA Kit; SLEB9 ELISA Kit; CD21 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	For the quantitative determination of Human CD21 concentration in serum.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Serum
Detection Range	39.06-2500pg/mL
Sensitivity	8.75pg/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

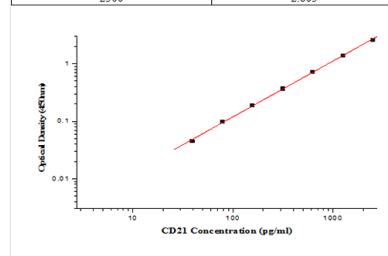
IMAGES

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 CD21. 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
39.063	0.045
78.125	0.099
156.25	0.188
312.5	0.369
625	0.728
1250	1.391
2500	2.603



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 CD21 elisa kit	This CD21 ELISA Kit, Human is an enzyme-linked immunosorbent assay for the quantitative measurement of Human CD21 protein in Serum. It contains recombinant Human CD21, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: The cluster of differentiation (CD) system is commonly used as cell markers in Immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. CD21, also known as Complement component (3d/Epstein Barr virus) receptor 2 and CR2, is a member of the CD system and is a protein involved in complement system. CD21 is present on all mature B-cells and some T-cells and follicular dendritic cells. CD21 on mature B-cells form a complex called the B cell receptor complex with two other membrane proteins, CD19 and CD81. CD21 has a function in the complement system through serving as the cellular receptor specific for ligands such as C3 and C4 which can be attached to foreign macromolecules in order to remove or uptake them. This results in B-cells having enhanced response to the antigen.
References	Zola H, et al. (2007) CD molecules 2006-human cell differentiation molecules. J Immunol Methods. 318 (1-2): 1-5. Ho IC, et al. (2009) GATA3 and the T-cell lineage: essential functions before and after T-helper-2-cell differentiation. Nat Rev Immunol. 9 (2): 125-35. Matesanz-Isabel J, et al. (2011) New B-cell CD molecules. Immunology Letters.134 (2): 104-12. Joseph M, et al. (1989) Structure and Function of the Complement Receptors, CR1 (CD35) and CR2 (CD21). Advanced in immunology. 46: 183-219. Aubry JP, et al. (1992) CD21 is a ligand for CD23 and regulates IgE production. Nature 358: 505-7.

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.