abcam

Product datasheet

Human Complement C5 ELISA Kit ab125963

9 References 2 Images

Overview						
Product name	Human Complement C5 ELISA Kit					
Detection method	Colorimetric					
Precision	Intra-assay					
	Sample	n	Mean	SD	CV%	
	Overall				5.6%	
	Inter-assay					
	Sample	n	Mean	SD	CV%	
	Overall				10.1%	
Sample type	Cell culture supernatant, Saliva, Milk, Serum, Plasma, Cerebral Spinal Fluid					
Assay type	Sandwich (quantitative)					
Sensitivity	53 pg/ml					
Range	0.156 ng/ml - 10 ng/ml					
Recovery	101 %					
Assay time	4h 00m					
Assay duration	Multiple steps standard assay					
Species reactivity	Reacts with: Human					
Product overview	Human Complement C5 ELISA kit (Enzyme-Linked Immunosorbent Assay) is designed for the quantitative measurement of C5 in human plasma, serum, saliva, milk, CSF and cell culture supernatants.					

A Complement C5 specific antibody has been precoated onto 96-well plates and blocked. Standards or test samples are added to the wells and subsequently a Complement C5 specific biotinylated detection antibody is added and then followed by washing with wash buffer. Streptavidin-Peroxidase Conjugate is added and unbound conjugates are washed away with wash buffer. TMB is then used to visualize Streptavidin-Peroxidase enzymatic reaction. TMB is catalyzed by Streptavidin-Peroxidase to produce a blue color product that changes into yellow after adding acidic stop solution. The density of yellow coloration is directly proportional to the amount of Complement C5 captured in plate.

The entire kit may be stored at -20°C for long term storage before reconstitution - Avoid repeated freeze-thaw cycles.

Platform

Microplate

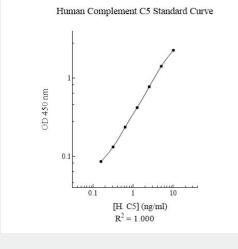
Properties

Storage instructions

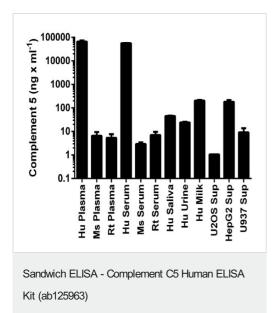
Store at -20°C. Please refer to protocols.

Components	1 x 96 tests
100X Streptavidin-Peroxidase Conjugate	1 x 80µl
10X Diluent N Concentrate	1 x 30ml
20X Wash Buffer Concentrate	2 x 30ml
50X Biotinylated Human Complement C5 Antibody	1 x 120µl
Chromogen Substrate	1 x 7ml
Complement C5 Microplate (12 x 8 well strips)	1 unit
Complement C5 Standard	1 vial
Sealing Tapes	3 units
Stop Solution	1 x 11ml

Function	Activation of C5 by a C5 convertase initiates the spontaneous assembly of the late complement components, C5-C9, into the membrane attack complex. C5b has a transient binding site for C6. The C5b-C6 complex is the foundation upon which the lytic complex is assembled. Derived from proteolytic degradation of complement C5, C5 anaphylatoxin is a mediator of local inflammatory process. It induces the contraction of smooth muscle, increases vascular permeability and causes histamine release from mast cells and basophilic leukocytes. C5a also stimulates the locomotion of polymorphonuclear leukocytes (chemokinesis) and direct their migration toward sites of inflammation (chemotaxis).
Involvement in disease	Defects in C5 are the cause of complement component 5 deficiency (C5D) [MIM:609536]. A rare defect of the complement classical pathway associated with susceptibility to severe recurrent infections, predominantly by Neisseria gonorrhoeae or Neisseria meningitidis. Note=An association study of C5 haplotypes and genotypes in individuals with chronic hepatitis C virus infection shows that individuals homozygous for the C5_1 haplotype have a significantly higher stage of liver fibrosis than individuals carrying at least 1 other allele (PubMed:15995705).
Sequence similarities	Contains 1 anaphylatoxin-like domain. Contains 1 NTR domain.
Cellular localization	Secreted.



Human Complement C5 typical standard curve



medium with background signal subtracted (duplicates +/- SD).

Complement 5 measured in biological fluids and cell culture

Representative Standard Curve using ab125963

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