abcam

Product datasheet

Human Complement C6 ELISA Kit ab125965

3 Images

Overview

Product name Human Complement C6 ELISA Kit

Detection method Colorimetric

Precision

Intra-assay

Sample	n	Mean	SD	CV%
Overall				4.7%

Inter-assay

Sample	n	Mean	SD	CV%
Overall				8.9%

Sample type Cell culture supernatant, Saliva, Milk, Urine, Serum, Plasma, Cerebral Spinal Fluid

Assay type Sandwich (quantitative)

Sensitivity 0.14 ng/ml

Range 0.391 ng/ml - 25 ng/ml

Recovery 101 %

Assay time 4h 00m

Assay duration Multiple steps standard assay

Species reactivity **Reacts with:** Human

Product overview Abcam's Complement C6 Human *in vitro* ELISA (Enzyme-Linked Immunosorbent Assay) kit is designed for the quantitative measurement of C6 in Human plasma, serum, saliva, urine, milk, and cell culture supernatants.

A Complement C6 specific antibody has been precoated onto 96-well plates and blocked. Standards or test samples are added to the wells and subsequently a Complement C6 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 C6 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 C6 Antibody	1 x 120µl
Chromogen Substrate	1 x 7ml
Complement C6 Microplate (12 x 8 well strips)	1 unit
Complement C6 Standard	1 vial
Sealing Tapes	3 units
Stop Solution	1 x 11ml

Function Constituent of the membrane attack complex (MAC) that plays a key role in the innate and adaptive immune response by forming pores in the plasma membrane of target cells.

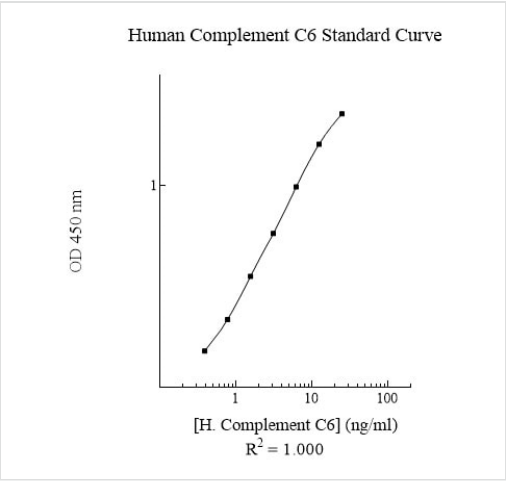
Involvement in disease Defects in C6 are the cause of complement component 6 deficiency (C6D) [MIM:612446]. A rare defect of the complement classical pathway associated with susceptibility to severe recurrent infections, predominantly by Neisseria gonorrhoeae or Neisseria meningitidis.

Sequence similarities Belongs to the complement C6/C7/C8/C9 family.
Contains 1 EGF-like domain.
Contains 2 Kazal-like domains.
Contains 1 LDL-receptor class A domain.
Contains 1 MACPF domain.
Contains 2 Sushi (CCP/SCR) domains.
Contains 3 TSP type-1 domains.

Post-translational modifications All cysteine residues are assumed to be cross-linked to one another. Individual modules containing an even number of conserved cysteine residues are supposed to have disulfide linkages only within the same module.

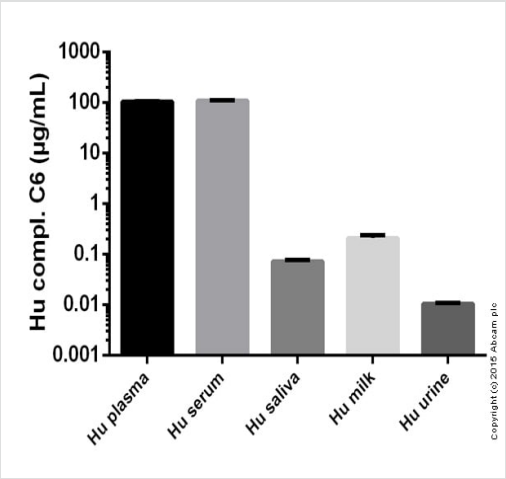
Cellular localization Secreted.

Images



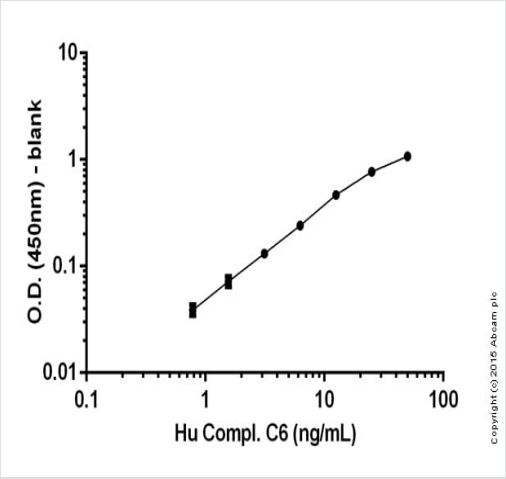
Human Complement C6 typical standard curve

Representative Standard Curve using ab125965.



125965 Complement C6 Human ELISA Kit (AssayPro)

Complement C6 measured in various biofluids showing quantity (microgram) per mL of sample tested



125965 Complement C6 Human ELISA Kit (AssayPro)

Colorimetric standard curve: mean of duplicates (+/-) with background readings subtracted

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