

Human Complement fragment 4a ELISA Kit | C4a elisa kit

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CATALOG #
AAA86876

REACTIVITY
Human

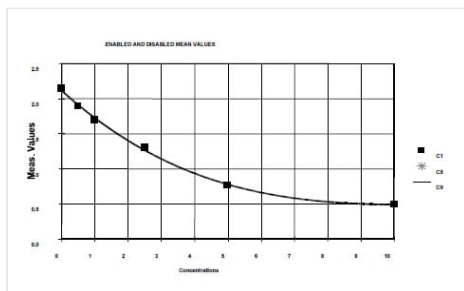
PRODUCT SYNONYMS

Complement fragment 4a; Human Complement fragment 4a ELISA Kit; C4a elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	2.5-50ng/mL
Sensitivity	0.1ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for C4a elisa kit	For Samples: Cell culture fluid & body fluid & tissue homogenate Serum or blood plasma Intended Uses: This C4A ELISA kit is intended for laboratory research use only. The stop solution changes the color from blue to yellow and the intensity of the color is measured at 450 nm using a spectrophotometer. In order to measure the concentration of C4A in the sample, this C4A ELISA Kit includes a set of calibration standards. The calibration standards are assayed at the same time as the samples and allow the operator to produce a standard curve of Optical Density versus C4A concentration. The concentration of in the samples is then determined by comparing the O.D. of the samples to the standard curve Principle of the Assay: The coated well immunoenzymatic assay for the quantitative measurement of C4A utilizes a monoclonal anti-C4A antibody and an C4A-HRP conjugate. The assay sample and buffer are incubated together with C4A-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the C4A concentration since C4A from samples and C4A-HRP conjugate compete for the anti-C4A antibody binding site. Since the number of sites is limited, as more sites are occupied by C4A from the sample, fewer sites are left to bind C4A-HRP conjugate. Standards of known C4A concentrations are run concurrently with the samples being assayed and a standard curve is plotted relating the intensity of the color (Optical Density) to the concentration of C4A. The C4A concentration in each sample is interpolated from this standard curve.
Product Categories/Family for C4a elisa kit	Immunology

NCBI AND UNIPROT INFORMATION

NCBI GI #	67190748
NCBI GeneID	720
NCBI Accession #	NP_009224.2
NCBI GenBank Nucleotide #	NM_007293.2
Molecular Weight	187,704 Da
NCBI Official Full Name	complement C4-A isoform 1 preproprotein
NCBI Official Synonym Full Names	complement component 4A (Rodgers blood group)
NCBI Official Symbol	C4A
NCBI Official Synonym Symbols	C4; RG; C4S; CO4; C4A2; C4A3; C4A4; C4A6; C4AD; CPAMD2
NCBI Protein Information	complement C4-A; acidic C4; C4A anaphylatoxin; Rodgers form of C4; acidic complement C4; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 2
UniProt Protein Name	Complement C4-A
UniProt Gene Name	C4A
UniProt Synonym Gene Names	CO4; CPAMD2
UniProt Entry Name	CO4A_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/c4a-human-elisa-kits/complement-fragment-4a/86876>