

Rat Complement Component 3a (C3a) CLIA Kit | C3a clia kit

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CATALOG #
AAA161477

REACTIVITY
Rat

PRODUCT SYNONYMS

Complement Component 3a (C3a); Rat Complement Component 3a (C3a) CLIA Kit; C3a CLIA kit (Rat); C3a clia kit

PRODUCT SPECIFICATIONS

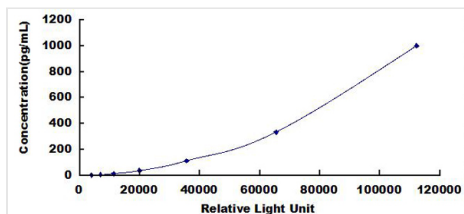
Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Complement Component 3a (C3a). No significant cross-reactivity or interference between Complement Component 3a (C3a) and analogues was observed. Reactive with Rat C3a/Complement Component 3a
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma and other biological fluids
Detection Method	Chemiluminescence
Featured Series	SE kit
Detection Range	1.37-1,000pg/mL
Sensitivity	0.56pg/mL
Sample Size	100uL
Assay Time	2h, 40min
Function	Detects protein (regular version)
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Complement Component 3a (C3a) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Complement Component 3a (C3a) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10%, Inter-Assay: CV<12%
Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 100ul standard or sample to each well. Incubate 2 hours at 37 degree C 3. Aspirate and add 100ul prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 100ul prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 100ul Substrate Solution. Incubate 10 minutes at 37 degree C 8. Read RLU value immediately.
Test Principle	The microplate provided in this kit has been pre-coated with an antibody specific to Complement Component 3a (C3a). Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to Complement Component 3a (C3a). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then the mixture of substrate A and B is added to generate glow light emission kinetics. Upon plate development, the intensity of the emitted light is proportional to the Complement Component 3a (C3a) level in the sample or standard.
Research Area	Infection immunity, Immune molecule, Autoimmunity

Preparation and Storage

Store at 4 degree C for 1 month/-20 degree C for long-term (One year within shelf life)

The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

Typical Standard Curve for C3a CLIA (Sandwich)

NCBI AND UNIPROT INFORMATION

NCBI GI #	158138561
NCBI GeneID	24232
NCBI Accession #	NP_058690.2
NCBI GenBank Nucleotide #	NM_016994.2
UniProt Accession #	P01026; Q9ET19; Q9QV57; Q9QV58
Molecular Weight	186,460 Da
NCBI Official Full Name	complement C3
NCBI Official Synonym Full Names	complement C3
NCBI Official Symbol	C3
NCBI Protein Information	complement C3
UniProt Protein Name	Complement C3
UniProt Gene Name	C3
UniProt Synonym Gene Names	C3bc; ENCF-2; ENCF-1; ASP

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/rat-clia-kits/complement-component-3a-c3a/161477>