

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

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CATALOG #  
AAA190117

REACTIVITY  
Rat

### PRODUCT SYNONYMS

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

### PRODUCT SPECIFICATIONS

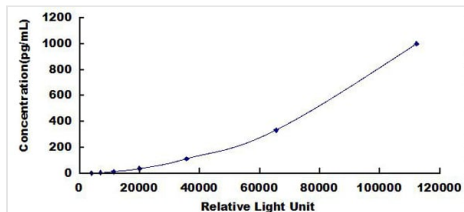
|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 Range         | 1.37-1,000pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Sensitivity             | 0.56pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Sample Size             | 100uL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Detection Method        | Chemiluminescence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Featured Series         | SE kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 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.<br>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.<br>CV(%) = SD/meanX100<br>Intra-Assay: CV<10%, Inter-Assay: CV<12%                                                                                                                                                                                  |
| Function                | Detects protein (regular version)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Assay Procedure Summary | 1. Prepare all reagents, samples and standards<br>2. Add 100ul standard or sample to each well. Incubate 2 hours at 37 degree C<br>3. Aspirate and add 100ul prepared Detection Reagent A. Incubate 1 hour at 37 degree C<br>4. Aspirate and wash 3 times<br>5. Add 100ul prepared Detection Reagent B. Incubate 30 minutes at 37 degree C<br>6. Aspirate and wash 5 times<br>7. Add 100ul Substrate Solution. Incubate 10 minutes at 37 degree C<br>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)

## 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://www.aaabiotech.com/rat-clia-kits/complement-component-3a-c3a/190117>