

## Rat Complement Component 4d (C4d) ELISA Kit | C4d elisa kit

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CATALOG #  
AAA189887

REACTIVITY  
Rat

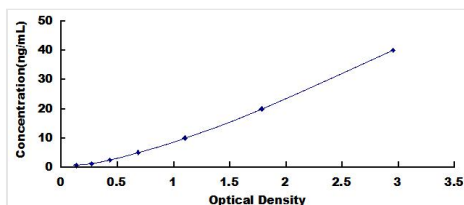
### PRODUCT SYNONYMS

Complement Component 4d (C4d); Rat Complement Component 4d (C4d) ELISA Kit; C4d/Complement Component 4d; C4d elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of C4d. No significant cross-reactivity or interference between C4d and analogues was observed.                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Assay Type              | Quantitative Sandwich                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Samples                 | Rat serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Detection Range         | 0.625-40ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Sensitivity             | < 0.232ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level C4d were tested 20 times on one plate, respectively. Intra-Assay: CV<10%                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Inter-assay Precision   | Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level C4d were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%                                                                                                                                                                                                                                                                                                                                                                                           |
| Preparation and Storage | Store at 4 degree C for 1 month/-20 degree C for long-term (within shelf life)<br>Shelf Life: 8 months<br>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)

ADDITIONAL INFORMATION

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for C4d elisa kit | <p>Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to C4d. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to C4d. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain C4d, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of C4d in the samples is then determined by comparing the O.D. of the samples to the standard curve.</p> <p>Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of C4d in rat serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.</p> |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                               |
|----------------------------------|-----------------------------------------------|
| NCBI GI #                        | 158186621                                     |
| NCBI GeneID                      | 24233                                         |
| NCBI Accession #                 | NP_113692.2                                   |
| NCBI GenBank Nucleotide #        | NM_031504.3                                   |
| UniProt Accession #              | P08649; Q62895; Q8R403                        |
| Molecular Weight                 | 192,163 Da                                    |
| NCBI Official Full Name          | complement C4                                 |
| NCBI Official Synonym Full Names | complement component 4A (Rodgers blood group) |
| NCBI Official Symbol             | C4a                                           |
| NCBI Official Synonym Symbols    | C4; C4b; C4-1                                 |
| NCBI Protein Information         | complement C4                                 |
| UniProt Protein Name             | Complement C4                                 |
| UniProt Gene Name                | C4                                            |
| UniProt Synonym Gene Names       | C4a                                           |
| UniProt Entry Name               | CO4_RAT                                       |

**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-elisa-kits/complement-component-4d-c4d/189887>