

## Rat Immunoglobulin G1 (IgG1) ELISA Kit | IgG1 elisa kit

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CATALOG #  
**AAA136891**

REACTIVITY  
**Rat**

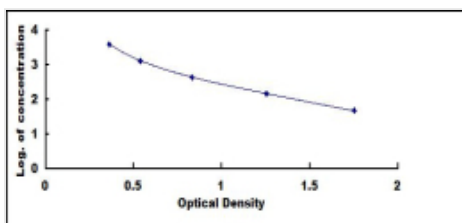
### PRODUCT SYNONYMS

Immunoglobulin G1 (IgG1); Rat Immunoglobulin G1 (IgG1) ELISA Kit; IGHG1; Ig Gamma-1 Chain C Region; Immunoglobulin Heavy Constant Gamma 1; G1m Marker; Immunoglobulin Gm1; IgG1 elisa kit

### PRODUCT SPECIFICATIONS

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                        | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Specificity                                       | This assay has high sensitivity and excellent specificity for detection of Immunoglobulin G1 (IgG1). No significant cross-reactivity or interference between Immunoglobulin G1 (IgG1) and analogues was observed.                                                                                                                                                                                                                                                                          |
| Assay Type                                        | Competitive Inhibition                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Samples                                           | Serum, Plasma and other biological fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Detection Range                                   | 49.4-4,000ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Sensitivity                                       | 18.7ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Application                                       | Enzyme-linked immunosorbent assay for Antigen Detection.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Intra-assay Precision (Precision within an assay) | 3 samples with low, middle and high level Immunoglobulin G1 (IgG1) were tested 20 times on one plate, respectively.                                                                                                                                                                                                                                                                                                                                                                        |
| Inter-assay Precision (Precision between assays)  | 3 samples with low, middle and high level Immunoglobulin G1 (IgG1) were tested on 3 different plates, 8 replicates in each plate.                                                                                                                                                                                                                                                                                                                                                          |
| CV(%) =                                           | SD/meanX100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Intra-Assay                                       | CV<10%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Inter-Assay                                       | CV<12%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Preparation and Storage                           | 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.<br>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 IgG1 elisa kit | This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to Immunoglobulin G1 (IgG1) has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled Immunoglobulin G1 (IgG1) and unlabeled Immunoglobulin G1 (IgG1) (Standards or samples) with the pre-coated antibody specific to Immunoglobulin G1 (IgG1). After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of Immunoglobulin G1 (IgG1) in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of Immunoglobulin G1 (IgG1) in the sample. |
| Product Categories/Family for IgG1 elisa kit   | Immune molecule                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

**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/immunoglobulin-g1-igg1/136891>