

Human Immunoglobulin G ELISA Kit | IgG elisa kit

Human Immunoglobulin G ELISA Kit

CATALOG #
AAA247869

REACTIVITY
Human

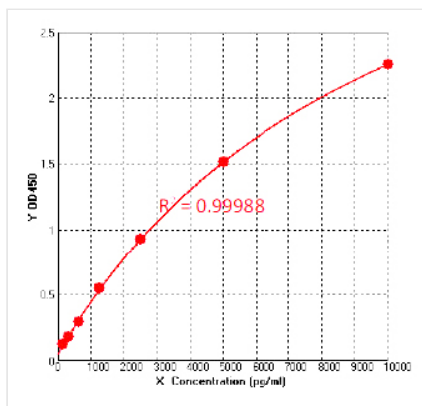
PRODUCT SYNONYMS

Immunoglobulin G; Human Immunoglobulin G ELISA Kit; IgG elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Capture antibody and detection antibody respectively identify different epitopes of the antigen, which maximizes the specificity of the reaction. No cross-reaction exists between the homologous antigens.
Assay Type	Sandwich
Intra-assay Precision	2.7-3.14
Inter-assay Precision	8.4-9.6

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IgG elisa kit	Background: Immunoglobulin is a group of globulins with special chemical structure and immune function that exists in the body fluids and on the surface of lymphocytes, it is a material base for antibodies. The five major classes of immunoglobulin defined by their different structures and functions are IgG, IgM, IgA, IgD and IgE. Their molecular size, charge, amino acid composition and carbohydrate content are very uneven. Immunoglobulin molecule carries out dual tasks—binding to antigens and stimulating antibody production. Immunoglobulin G (IgG) is the most abundant immunoglobulin in serum, it makes up 75% of the serum immunoglobulin levels. The average amount of IgG circulating in a healthy adult is 9.5~12.5mg/ml, 40~50% of which are distributed in serum, and the rest are distributed in tissues. Human IgG can be divided into IgG1, IgG2, IgG3, and IgG4 subclasses. They vary in the degree of binding abilities in the process of complement activation. Principle of the Assay: This ELISA kit is applied to the double antibody sandwich Enzyme Linked Immunosorbent Assay to detect the concentration of human IgG in samples. The microtiter plate has been pre-coated with goat anti-human antibody, standards or samples are then added to the microtiter plate wells and IgG if present, will bind to the antibody pre-coated wells under specific conditions. After washing, then a coupled biotin-conjugated detection goat anti-human antibody is added to the wells, under 37℃ incubation, to form a precoated antibody-human IgG-detection antibody sandwich complex. After washing, coupled avidin conjugated Horseradish Peroxidase (HRP) is added to the wells, resulting in a cascade amplification effect. Then a TMB substrate solution is added to the wells to incubate. TMB substrate solution turns blue after the oxidation of HRP, and finally turns to yellow immediately after adding the stop solution. Color of TMB substrate positively correlated with total IgG bound in the initial steps. The color is measured by spectrophotometrically with wavelength of 450nm. The concentration of human IgG in samples is then determined by comparing the O.D. of the samples to the standard curve.
---	---

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/igg-human-elisa-kits/immunoglobulin-g/247869>