

Guinea Pig Immunoglobulin G, IgG ELISA Kit | IgG elisa kit

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CATALOG #
AAA79563

REACTIVITY
Guinea Pig

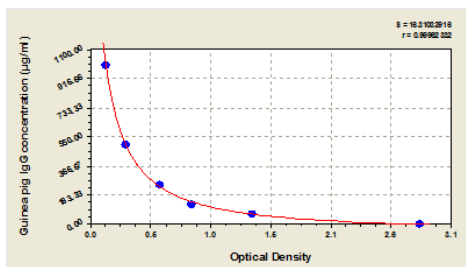
PRODUCT SYNONYMS

Immunoglobulin G; IgG; Guinea Pig Immunoglobulin G; IgG ELISA Kit; Guinea pig Immunoglobulin G; IgG elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Guinea Pig
Sequence Length	476
Samples	Serum, plasma
Assay Type	Competitive
Detection Range	0.24 ug/ml-240 ug/ml
Sensitivity	0.24 ug/ml
Detection Wavelength	450 nm
Sample Volume	50-100ul
Protein Biological Process 1	Immunoglobulin
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IgG elisa kit	Introduction: Immunoglobulin G (IgG) is a multimeric immunoglobulin, built of two heavy chains gamma and two light chains. Each complex has two antigen binding sites. This is the most abundant immunoglobulin and is approximately equally distributed in blood and in tissue liquids, constituting 75% of serum immunoglobulins in humans. IgG molecules are synthesised and secreted by plasma B cells. IgG antibodies are predominately involved in the secondary antibody response, (the main antibody involved in primary response is IgM) which occurs approximately one month following antigen recognition, thus the presence of specific IgG generally corresponds to maturation of the antibody response. Pro-inflammatory cytokines particularly IL-4 and IL-2, have a crucial role in activation of the IgG antibody response. This is the only isotype that can pass through the human placenta, thereby providing protection to the fetus in utero. Along with IgA secreted in the breast milk, residual IgG absorbed through the placenta provides the neonate with humoral immunity before its own immune system develops. It can bind to many kinds of pathogens, for example viruses, bacteria, and fungi, and protects the body against them by agglutination and immobilization, complement activation (classical pathway), opsonization for phagocytosis and neutralization of their toxins. It also plays an important role in Antibody-dependent cell-mediated cytotoxicity (ADCC). IgG is also associated with Type II and Type III Hypersensitivity. Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. The microtiter plate provided in this kit has been pre-coated with Guinea Pig IgG. Standards or samples are then added to the appropriate microtiter plate wells with Horseradish Peroxidase (HRP)-conjugated anti-Guinea Pig IgG antibody, mix well and incubated. The more the amount of Guinea Pig IgG in samples, the less HRP-anti-IgG bound by pre-coated Guinea Pig IgG. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. And the color develops in opposite to the amount of Guinea Pig IgG in the sample. The color development is stopped and the intensity of the color is measured.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	185362
NCBI Official Full Name	IgG

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/guinea-pig-pig-elisa-kits/immunoglobulin-g-igg/79563>