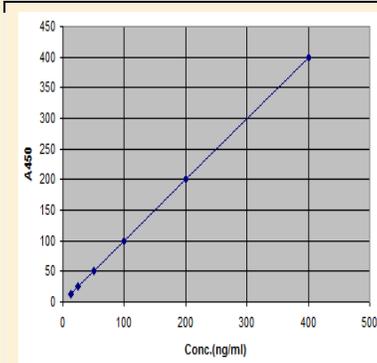


Cat IgE ELISA Kit, 96 tests, Quantitative #300-190-CGE

This kit measures cat IgE class antibodies in cat serum or plasma or other biological fluids. For in vitro research use only.



Typical Std. Curve

ELISA Kit Features

- Anti-cat IgE pre-coated, stabilized, ready-to-use 96-well strip plate, stable for ~12 months.
- Cat IgE standards (12.5, 25, 50, 100, 200, 400 ng/ml)
- Sensitivity 5 ng/ml.
- Sample: Serum or plasma; size 100 ul (diluted ~1:1000 fold or more).
- 130 (60+60+10) mins assay, 3 incubation steps, Good Recovery and Assay Precision.
- Contains all necessary reagents. Shelf life ~12 months.
- Sample values are calculated from the standard curve.

Assay Procedure: Allow all reagents to reach room temperature. Arrange and label required number of strips.

- Step 1.** Pipet 100 ul each of pre-diluted stds, samples (diluted 1:1000 or more). Mix gently, cover and incubate at RT for 60 mins.
- Step 2. Aspirate and Wash 4X** Add 100 ul of HRP conjugate, cover and incubate at RT for 60 mins.
- Step 3. Aspirate and Wash 3X. Add 100 ul TMB substrate** to all wells, mix gently, cover and incubate at RT for 10 mins.
- Step 4.** Pipet 100 ul of stop solution into each well and mix gently (blue color turns yellow). Measure absorbance at 450 nm. Determine IgE conc. in each sample using the standards (results are expressed in ng/ml).

Performance characteristics

First calculate the averaged optical densities for each calibrator well, and plot the averaged optical density of each calibrator versus the concentration. Interpolate test sample values from standard curve.

Precision: Intra-assay (%CV) <10

Inter-assay (%CV) <10

Recovery: >85%

Specificity & Species reactivity: This kit only detects IgE class of immunoglobulins in cat samples. This kit is optimized for cat samples.

General information

Immunoglobulins belong to a large group of related glyco-proteins that make up approximately 20% of the serum proteins. The serum immunoglobulins react with antigens and confer immunity to individuals. All immunoglobulins share the basic structure of: 2 identical heavy chains joined by disulfide bonds to 2 identical light chains. Both the heavy (H) chains and the light (L) chains are divided into constant and variable regions. The constant regions have similar amino acid composition between all the immunoglobulin classes while the variable regions encompasses about 110 amino acids characterized by a high degree of sequence variability. Its H-chain type, based on the amino acid sequence, determines the classes of an immunoglobulin. There are 5 types of H-chains that correspond to the following immunoglobulin classes: IgG, IgA, IgM, IgD, and IgE. IgG is further subdivided into 4 subclasses with ~95% homology. There are 2 subclasses of IgA. IgG and IgA exists in serum as a monomer consisting of a single 4-polypeptide unit. IgM exists in serum as a pentamer. IgA may also polymerize to form polymers containing 2-5 structural units.

It is important to measure the level of immunoglobulins in serum for Antibody deficiency conditions, such as Primary hypogammaglobulinaemia, or other immune deficiency diseases such as AIDS. When evaluating patients with recurrent infections, suspected immunodeficiency, allergic disease and many other conditions, it may be necessary to quantify the levels of immunoglobulins. ADI's cat IgE ELISA kit is used to measure IgE class antibodies in cat samples. Kits for the detection of IgA, IgG and IgM are also available. ADI has developed quantitative kits for the detection of immunoglobulins in other species.

Related ELISA kits

Catalog#	Product Description
300-100-CGG	Cat IgG ELISA Kit, 96 tests, Quantitative
300-170-CGM	Cat IgM ELISA Kit, 96 tests, Quantitative
300-180-CGA	Cat IgA ELISA Kit, 96 tests, Quantitative
300-190-CGE	Cat IgE ELISA Kit, 96 tests, Quantitative

300-190-CGE-flr

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