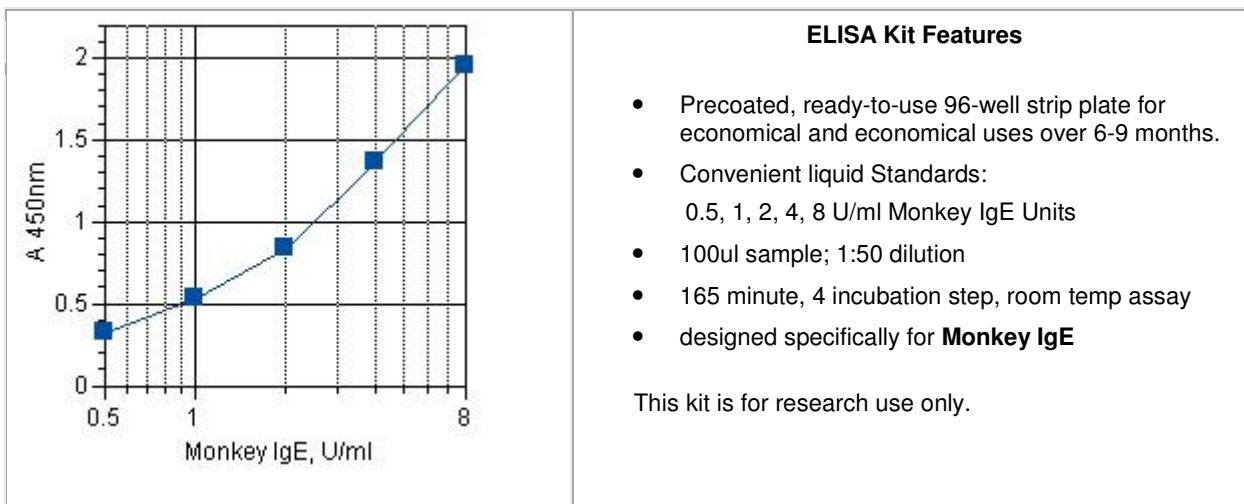


## Monkey IgE ELISA Kit, Cat# 7070

Monkey IgE ELISA | Quantitative, Sandwich ELISA | Stds = 0.5 - 8 U/ml ; Sample=100 ul; 165 min assay | 1 kit



### Assay Procedure

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

**Step 1.** Pipet 100 ul of pre-diluted standards and samples (diluted 1:25). Mix gently and incubate at room temp for **60 min.**

**Step 2.** Aspirate and wash the plate 3X. Add 100ul of Detection Antibody, mix gently and incubate at room temp for **60 min.**

**Step 3.** wash the plate 3X. Add 100 ul of Streptavidin-HRP conjugate, mix gently, and incubate at room temp for **30 min.**

**Step 4.** wash the plate five times. Add 100 ul of TMB Substrate solution, mix gently, and incubate at room temp for **15 min.**

**Step 5.** Pipet 100 ul of stop solution into each well and mix gently (blue color turns yellow). Measure at A450 nm.

### Product Summary

IgE is a unique class of immunoglobulin which is important in the mediation of allergic responses. The mechanism of action involves an initial antigenic stimulation of immunocompetent B lymphocytes by specific antigen, a process that induces the lymphocytes to respond by producing specific antibodies of several classes. The IgE class binds to receptors on the surface of mast cells. Upon further stimulation to specific allergens (antigens), the cell-bound IgE binds the allergen and, in combination with mast cells and basophiles, releases vasoactive amines into blood and surrounding tissue. These agents increase vascular permeability, an efflux of blood components and the consequent symptoms characteristic of allergic reaction. Studies have shown that conditions such as asthma, rhinitis, eczema, urticaria, dermatitis, and some parasitic infections lead to increased IgE levels. Primates are an important mode of research regarding the mechanisms and treatment of allergic responses, and quantitation of IgE levels is an important testing parameter.

Alpha Diagnostics has developed immunoassays for detection and quantitation of IgE in primates used in the research of allergy-related diseases. The Monkey IgE ELISA is configured using monkey serum standards which produce a standard curve linear with dilutions of monkey serum samples (including Rhesus and Cynomolgous monkeys and baboons), and therefore provide for appropriately accurate and precise quantitation. Similarly, the Chimp IgE ELISA uses chimpanzee serum standards appropriate for quantitating IgE in serum samples from apes. Standards of each kit have been calibrated in Units which correspond to the International Units of human IgE as established by the WHO.

Antibodies used in the monkey and the Chimp IgE kit have very good reactivity with human IgE but minimal crossreactivity with mouse, rat and other animal's IgE.