

AP21483BT-N**Polyclonal Antibody to Rat IgE (Fc specific) - Biotin****Alternate names:**

Rat Immunoglobulin E

Quantity:

1 ml

Concentration:

6.8 mg/ml

Host / Isotype:

Goat / IgG

Immunogen:

Purified homogenous IgE isolated from Rat serum.
Freund's complete adjuvant is used in the first step of the immunization procedure.

Format:**State:** Lyophilized purified IgG fraction.**Purification:** Hyperimmune antisera with strong precipitating activity are selected for fractionation by salt precipitation and purification of the IgG fraction by DEAE-chromatography.**Buffer System:** PBS, pH 7.2 without preservatives.**Label:** Biotin*Molar Ratio:* Biotin/IgG ~7.1**Reconstitution:** Restore by adding 1 ml of sterile distilled water.**Applications:**

This antibody can be used

In Immunocytochemical and Immunohistochemical staining for the detection of IgE at the cellular and subcellular level by staining of appropriately treated cell and tissue substrates, and to demonstrate circulating antibodies in serodiagnostic microbiology. In non-isotopic assay methodology (e.g. ELISA) to identify and measure IgE in rat serum or other body fluid.

As a second step an avidin or streptavidin conjugate of the user's choice has to be used.

Excess labelled antibody must be avoided because it may cause high unspecific background staining and interfere with the specific signal.

Recommended Dilutions:

Histochemistry and Cytochemistry: 1/100-1/500.

ELISA and comparable non-precipitating antibody-binding assays: 1/1,000-1/10,000.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

The reactivity of the antiserum is directed to the Fc subunits of the IgE molecule which represents strict isotype (class) specificity.

In immunoelectrophoresis and Double Radial Immunodiffusion, using various antiserum concentrations against appropriate concentrations of IgE, a single precipitin line is obtained which shows a reaction of full identity with the precipitin line obtained with the used immunogen. It does not react with Rat IgG, including all subclasses, IgA, IgM and IgG/Fab or any non-Ig protein in Rat serum.

Cross-reactivity: Inter-species cross-reactivity is a normal feature of antibodies to immunoglobulins, since immunoglobulins of different species frequently share antigenic determinants. Cross-reactivity of this antiserum has not been tested in detail because of the low level of IgE in most species.

Performance Testing: Isotype specificity and quantitative specific recognition ability are further evaluated at the high level of sensitivity by direct single and simultaneous double staining of different types of Rat cells, using counterstaining with reference conjugates with a different marker. The immunoconjugate is further tested in ELISA-type assays.

Species: Rat.

Other species not tested.

Add. Information:

Adsorption: Immunoaffinity adsorbed using insolubilized antigens as required, to eliminate antibodies cross-reacting with other with other plasma proteins.

Special attention is given to the elimination of antibodies to the common Fab portion of immunoglobulins.

The use of insolubilized adsorption antigens prevents the presence of excess adsorbent protein or immune complexes in the antiserum.

Storage:

Store lyophilized at 2-8°C and reconstituted at 2-8°C for one week or (in aliquots) at -20°C for longer.

Avoid Repeated thawing and freezing.

Shelf life: one year from despatch.