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Product Information

Anti-Human IgE (ε-chain specific)–Alkaline Phosphatase
produced in goat, affinity isolated antibody

Catalog Number **A3525**

Product Description

Anti-Human IgE (ε-chain specific) is produced in goat using purified human IgE as the immunogen. Affinity isolated antibody is obtained from anti-human IgE antiserum by immunospecific purification which removes essentially all goat serum proteins, including immunoglobulins, which do not specifically bind to the ε-chain of human IgE. Anti-Human IgE is conjugated to alkaline phosphatase by protein cross linking with 0.2% glutaraldehyde.[1]

Specificity of Anti-Human IgE (ε-chain specific)-Alkaline Phosphatase is determined by ELISA. The conjugate is specific for human IgE when tested against human IgA, IgG, IgM, Bence Jones kappa and lambda myeloma proteins.

Identity and purity of the antibody is established by immunoelectrophoresis (IEP), prior to conjugation. Electrophoresis of the antibody preparation followed by diffusion versus anti-goat IgG and anti-goat whole serum result in single arcs of precipitation.

Reagent

Provided as a solution in 0.05 M Tris buffer, pH 8.0, containing 1% BSA, 1 mM $MgCl_2$, 15 mM sodium azide and 50% glycerol.

Storage

Store at 2-8 °C.

Precautions/Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Product Profile

Direct ELISA: titer 1:7,000-1:21,000
We are now reporting lot specific information as a titer rather than as a working dilution.

Titer is defined as the dilution of conjugate sufficient to give a change in absorbance of 1.0 at 405 nm after 30 minutes of substrate conversion at 25 °C [2].

Microtiter plates are coated with purified human IgE at a concentration of 5 µg/ml in 0.05 M carbonate-bicarbonate buffer, pH 9.6.
Carbonate-Bicarbonate Buffer capsules are available as Catalog Number C3041.

Substrate: *p*-Nitrophenyl phosphate (pNPP), Catalog Number N2765, 1.0 mg/mL in 10% diethanolamine buffer, pH 9.8, containing 0.5 mM $MgCl_2$.

Note: Working dilution should be determined by titration assay. Due to product improvement and changes in the assay procedure, we now list a lot specific titer by direct ELISA for this product. Due to differences in assay systems, this titer may not reflect the user's actual working dilution.

References

1. Avrameas, V., *Immunochemistry*, **6**, 43 (1969).
2. Voller, A., et al., *Bull. World Health Organ.*, **53**, 55 (1976).

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