Product Information

Anti-Human IgE–Alkaline Phosphatase antibody, Mouse monoclonal

clone GE-1, purified from hybridoma cell culture

A3076

Product Description

Monoclonal Anti-Human IgE (mouse IgG2b isotype) is derived from the GE-1 hybridoma produced by the fusion of mouse myeloma cells and splenocytes from an immunized mouse. Purified human IgE was used as the immunogen. The isotype is determined by a double diffusion immunoassay using Mouse Monoclonal Antibody Isotyping Reagents, Cat. No. ISO2. The immunoglobulin fraction of the ascites fluid was obtained by fractionation and then conjugated to alkaline phosphatase using 0.2% glutaraldehyde. Monoclonal Anti-Human IgE-Akaline Phosphatase is determined to be immunospecific for human IgE by ELISA. No cross reactivity with human IgG, IgA, or IgM is observed.

Reagent

Provided as a solution in 0.05 M Tris buffer, pH 8.0, with 1% BSA, 1 mM $MgCl^2$, 50% glycerol, and 15 mM sodium azide as a preservative.

Precautions

For R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Storage

Store at 2-8 °C.

Product Profile

Direct ELISA: Minimum 1:6,000 to 1:10,000

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 2-5 °C
1 Microtiter plates are coated with purified human IgE at a concentration of 5 mg/mL in 0.05 M carbonate/bicarbonate buffer, pH 9.6. Carbonate-Bicarbonate Buffer capsules are available as Cat. No. C3041.

Substrate: p-Nitrophenyl Phosphate (pNPP), Cat. No. N2765, 1.0 mg/mL in 10% diethanolamine buffer, pH 9.8, containing 0.5 mM $MgCl^2$.

Dot Blot

a. A minimum dilution of 1:1,000 was determined using 20 ng of human IgE/dot.

b. A minimum dilution of 1:1,000 was determined in a direct chemiluminescence assay using 20 ng human IgE/dot. 1,2-Dioxetane and enhancer used as substrate.

Note: In order to obtain the best results, it is recommended that each individual user determine the working dilution for their system by titration assay.

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A3076dat Rev 04/22