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Product Information

Anti-Human IgG–Alkaline Phosphatase antibody, Mouse monoclonal
clone GG-5, purified from hybridoma cell culture

Product Number **A2064**

Product Description

Monoclonal Anti-Human IgG (γ-chain specific) (mouse IgG1 isotype) is derived from the hybridoma produced by the fusion of mouse myeloma cells and splenocytes from an immunized mouse. Human IgG isolated from pooled normal human serum was used as the immunogen. The isotype is determined by a double diffusion immunoassay using Mouse Monoclonal Antibody Isotyping Reagents, Product Number ISO2. The immunoglobulin fraction of the hybridoma cell culture was obtained by fractionation and then conjugated to alkaline phosphatase using 0.2% glutaraldehyde.

Monoclonal Anti-Human IgG binds human IgG. It does not bind other human Ig's. The antibody is specific for a determinant on the heavy chain of human IgG. It will form antigen-antibody complexes in the liquid phase in the presence of 3% PEG 6000. The antibody is determined to be immunospecific for human IgG by ELISA. No cross reactivity with other human immunoglobulins or serum proteins is observed.

Reagent

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

Precautions and 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.

Storage

Store at 2-8 °C.

Product Profile

Direct ELISA
Dilution of 1:50,000
Titer is defined[1] 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. Microtiter plates are coated with purified human IgG at a concentration of 5 μg/ml in 0.05 M carbonate/bicarbonate buffer, pH 9.6

Carbonate-Bicarbonate Buffer capsules are available as Product Number C3041.

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

Dot Blot: a minimum dilution of 1:80,000 was determined in a direct chemiluminescence assay using 20 ng human IgG/dot. 1,2-Dioxetane and enhancer was used as substrate.

Immunohistology: a minimum dilution of 1:50 was determined by direct immunohistology using formalin-fixed, paraffin-embedded human tissue sections.

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

Reference

1. Voller, A., et al., Bulletin WHO, **53**, 55 (1976).

DS,PHC 03-16-1