

Product Information

Anti-Mouse IgG (Fc specific)–Alkaline Phosphatase

produced in goat, affinity isolated antibody,
adsorbed with human IgG

Catalog Number **A1418**

Product Description

Antiserum is produced in goat using as immunogen purified mouse IgG, Fc fragment. Antibody is isolated from goat anti-mouse IgG antiserum by immunospecific purification to remove essentially all goat serum proteins, including immunoglobulins, that do not specifically bind to the Fc fragment of mouse IgG. The antibody preparation is solid phase adsorbed with human IgG to ensure minimal cross reactivity in tissue or cell preparations. Anti-Mouse IgG is conjugated to alkaline phosphatase by protein cross linking with 0.2% glutaraldehyde.

Specificity of Anti-Mouse IgG (Fc specific)–Alkaline Phosphatase is determined by Enzyme Linked Immunosorbent Assay (ELISA). The conjugate is specific for mouse IgG and mouse IgG, Fc fragment. The antibody reacts with mouse subclasses G1, G2a, G2b and G3, but not with mouse IgA or IgM, or human IgG.

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 results in single arcs of precipitation.

Reagent

Supplied as a solution in 0.05 M Tris buffer, pH 8.0, containing 1% BSA, 1.0 mM MgCl₂ and 15 mM sodium azide as a preservative.

This goat antiserum was maintained at pH 5.0 for 40 minutes to meet USDA requirements.

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. **Do Not Freeze.**

Product Profile

Direct ELISA: Minimum 1:40,000

We are now reporting lot specific information as a titer by direct ELISA 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 400 nm after 30 minutes of substrate conversion at 25 °C¹.

Microtiter plates are coated with purified mouse 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 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 MgCl₂.

Immunoblotting: a working antibody dilution of 1:50,000-1:100,000 is determined while detecting β-Actin in total cell extract of HeLa cells (5-10ug per well)

Immunohistochemistry: a minimum antibody dilution of 1:25 was determined by an indirect assay using formalin-fixed, paraffin-embedded human tonsil and Monoclonal Anti-Human IgG, Catalog Number I5885, as the primary antibody.

Note: Working dilutions should be determined by titration assay. Due to differences in assay systems, these titers may not reflect the user's actual working dilution.

Reference

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

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