Product Information

Anti-Rabbit IgG (whole molecule)–
Alkaline Phosphatase
produced in goat, affinity isolated antibody,
adsorbed with human IgG

Catalog Number A9919

Product Description
Anti-Rabbit IgG (whole molecule) is produced in goat using purified rabbit IgG as the immunogen. Antibody is isolated from goat anti-rabbit IgG antiserum by immunospecific purification which removes essentially all goat serum proteins, including immunoglobulins, which do not specifically bind to rabbit IgG. The antibody preparation is solid phase adsorbed with human IgG to ensure minimal cross reactivity in tissue or cell preparations. Goat anti-rabbit IgG is conjugated to alkaline phosphatase by protein cross linking with 0.2% glutaraldehyde.¹

Specificity of the Anti-Rabbit IgG is determined by immunoelectrophoresis (IEP) using normal rabbit serum and rabbit IgG, prior to conjugation. The antiserum shows no reaction with human IgG by IEP.

Identity and purity of the antibody is established by immunoelectrophoresis, prior to conjugation. Electrophoresis of the antibody preparation followed by diffusion against 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 mM MgCl₂, with 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/Stability
Store at 2-8 °C. Do Not Freeze.

Product Profile
Direct ELISA: a minimum of 1:45,000 in a direct ELISA assay. 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 405 nm after 30 minutes of substrate conversion at 25 °C.²

Microtiter plates are coated with purified rabbit 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 Cat. No. C3041.

Substrate: p-Nitrophenyl Phosphate (pNPP), Catalog No. N2765, 1.0 mg/ml in 10% diethanolamine buffer, pH 9.8, containing 0.5 mM MgCl₂.

Immunoblotting: a working antibody dilution of 1:100,000-1:200,000 is determined using immunoblot assay detecting Actin in total cell extract of HeLa cells (5-10 µg per well)

Immunohistochemistry: a minimum dilution of 1:100 was determined by an indirect assay using formalin-fixed, paraffin-embedded human prostate and Anti-Prostatic Acid Phosphatase, Catalog No. P5664, 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.

References

DS,KAA,PHC 12/11-1