Product Information

Anti-Rabbit IgG (whole molecule)–Peroxidase Antibody Produced in Goat

Affinity isolated antibody

A0545

Product Description

Antiserum 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. Anti-Rabbit IgG is conjugated to peroxidase by protein cross linking with 0.2% glutaraldehyde.

Specificity of the Anti-Rabbit IgG–Peroxidase is determined by immunoelectrophoresis (IEP) using normal rabbit serum and rabbit IgG. The conjugate 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 versus anti-goat IgG and anti-goat whole serum results in single arcs of precipitation.

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 0.05% MIT as a preservative.

Antibody concentration: 4.0-11 mg/mL

Molar Ratio: 0.6-1.5

Precautions and Disclaimer

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

Storage

For continuous use, store at 2-8 °C for up to one month. For extended storage, the solution may be frozen in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use.

Product Profile

Direct ELISA: a working dilution of 1:30,000 is determined by ELISA using 5 µg/ml of rabbit IgG for the coating and *o*-Phenylenediamine Dihydrochloride (OPD) substrate.

Immunoblotting: a working dilution of 1:80.000-1:160,000 is determined using immunoblot assay detecting β-Actin in total cell extract of HeLa cells (5-10 µg per well).

Immunohistochemistry: a working dilution of 1:200 is determined by an indirect assay using formalin-fixed, paraffin-embedded human tonsil and Anti-Human IgG (Cat. No. I8635) 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.

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

Reference

Voller, A., et al., *Bull. World Health Organ.*, **53**, 55 (1976).

Notice

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A0545dat Rev 06/21