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ProductInformation

Anti-Rabbit IgG (whole molecule)-Peroxidase
Produced in Goat, Affinity Isolated Antibody

Product Number **A 6154**

Product Description

Anti-Rabbit IgG (whole molecule) is developed 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 that do not specifically bind to rabbit IgG. Goat anti-rabbit IgG is conjugated to Sigma Horseradish Peroxidase, Type VI by a modification of the periodate method of Wilson and Nakane.[1]

Anti-Rabbit IgG is determined to be immunospecific for rabbit IgG by immunoelectrophoresis against normal serum and rabbit IgG, prior to conjugation.

Identity and purity of the antibody is established by immunoelectrophoresis (IEP), 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

The product is provided as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 1% BSA with 0.01% thimerosal as a preservative.

Precautions and Disclaimer

Consult the MSDS for information regarding hazards and safe handling practices.

Storage/Stability

Store at –20 °C. For continuous use, the product may be stored at 2-8 °C for up to one month. For extended storage, the solution should be frozen in working aliquots. Repeated freezing and thawing is not recommended. Storage in "frost-free" freezers is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use.

Product Profile

A minimum titer of 1:10,000 is determined by Direct ELISA. Titer is defined as the dilution of conjugate sufficient to give a change in absorbance of 1.0 at 450 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 Product No. C 3041). Substrate: *o*-Phenylenediamine Dihydrochloride (OPD, Product No. P 8287), 0.4 mg/mL in 0.05 M phosphate-citrate buffer, pH 5.0, containing 0.03% sodium perborate (Phosphate-Citrate Buffer Capsules with Sodium Perborate are available as Product No. P 4922).

Working dilution should be determined by titration assay. Due to differences in assay systems, this titer may not reflect the user's actual working dilution.

References

1. Wilson, M., and Nakane, P., In: *Immunofluorescence and Related Staining Techniques*, p. 215, Elsiever/North Holland BioMedical Press, Amsterdam, 1978.
2. Voller, A., et al., Bull. World Health Organ., **53**, 55 (1976).

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