

Product Information

Anti-Goat IgG (Whole Molecule)—Peroxidase Antibody Produced in Rabbit

Affinity isolated antibody, Buffered aqueous solution

A4174

Product Description

Anti-Goat IgG (whole molecule) is developed in rabbit using purified goat IgG as the immunogen. Affinity isolated antigen specific antibody is obtained from rabbit anti-goat IgG antiserum by immunospecific purification which removes essentially all rabbit serum proteins, including immunoglobulins, which do not specifically bind to the goat IgG. Rabbit anti-goat IgG is then conjugated to Horseradish Peroxidase, Type VI (P8375) by a modification of the periodate method of Wilson and Nakane.¹

Specificity of Peroxidase Conjugated Anti-Goat IgG is determined by immunoelectrophoresis (IEP) versus normal goat serum and goat IgG, prior to conjugation. Cross reactivity of the antibody-conjugate is determined by ELISA. The conjugate shows no reactivity with human serum proteins.

Identity and purity of the antibody is established by immunoelectrophoresis, prior to conjugation. Electrophoresis of the antibody preparation followed by diffusion versus anti-rabbit IgG and anti-rabbit whole serum results in single arcs of precipitation.

Reagents

The conjugate is provided as a solution in Solution in 0.01 M phosphate buffered saline, pH 7.4, containing 1% bovine serum albumin and 0.05% MIT.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses.

Storage/Stability

For continuous use, store at 2-8 °C. For extended storage, the solution may 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

We are now reporting lot specific information as a titer by direct ELISA (minimum 1:12,000) 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 450 nm after 30 minutes of substrate conversion at 25 °C. Microtiter plates are coated with purified goat IgG at a concentration of 5 μ g/mL in 0.05 M carbonate-bicarbonate buffer, pH 9.6 (Carbonate-Bicarbonate Buffer Capsules are available as C3041).

Substrate

o-Phenylenediamine Dihydrochloride (OPD, P8287), 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 P4922).

Working dilution should be determined by titration assay. Due to product improvement and changes in the assay procedure, we now list a lot specific titer by direct ELISA for this product. Due to differences in assay systems, this titer may not reflect the user's actual working dilution.

References

- 1. Wilson, M. and Nakane, P., Immunofluorescence and Related Staining Techniques, (Elsevier-North Holland Biomedical Press, Amsterdam), p. 215, (1978).
- 2. Voller, A., et al., Bull. World Health Organ., 53, 55 (1976).

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