

Product Information

Anti-Goat IgG (whole molecule)–Peroxidase
produced in rabbit, affinity isolated antibody

Catalog Number **A5420**

Product Information

Antiserum is produced in rabbit using as immunogen purified goat IgG. Affinity isolated antibody is obtained from rabbit anti-goat antiserum by immunospecific purification which removes essentially all rabbit serum proteins, including immunoglobulins, which do not specifically bind to goat IgG. Anti-Goat IgG is then conjugated to peroxidase by protein cross linking with 0.2% glutaraldehyde. The conjugate is provided as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 0.05% MIT (2-Methyl-4-isothiazolin-3-one hydrochloride) as a preservative.

Specificity of Anti-Goat IgG- Peroxidase is determined by immunoelectrophoresis (IEP) versus normal goat serum and goat IgG.

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

Storage and Stability

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.

Precautions and Disclaimer

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

Product Profile

Molar Ratio (IgG:Peroxidase) = 0.6 - 1.5

ELISA: a minimum titer of 1:40,000 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.¹

Microtiter plates are coated with purified goat 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: o-Phenylenediamine dihydrochloride (OPD), Cat. No. P8287, 0.4 mg/ml in 0.05 M phosphate citrate buffer, pH 5.0, containing 0.03% sodium perborate. Phosphate-Citrate Buffer with Sodium Perborate capsules are available as Cat. No. P4922.

Dot Blot: a working dilution of 1:80,000-1:160,000 was determined using chemiluminescence system in an indirect assay using 2.5-10 ng/dot of human IgG and goat Anti-Human IgG as the primary antibody.

Immunohistochemistry: a minimum working dilution of 1:200 was determined by indirect immunoperoxidase labeling of formalin-fixed, paraffin-embedded human tonsils using Anti-Human IgG, Cat. No. I1011, 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 World Health Org*, **53**, 55 (1976).

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