

Product Information

Anti-Human IgG (whole molecule)-Peroxidase antibody produced in goat

IgG fraction of antiserum, buffered aqueous solution

Catalog Number **A8667**

Product Description

Antiserum is produced in goat using human IgG as the immunogen. Whole antiserum is fractionated and then further purified by ion exchange chromatography to provide the IgG fraction of antiserum which is essentially free of other goat serum proteins. Goat anti-human IgG is conjugated to peroxidase by means of a two-step glutaraldehyde method and then purified to remove unconjugated material.

Reagent

Supplied as a Solution in 0.01 M phosphate buffered saline, pH 7.4, containing 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 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.

Specificity

Specificity of the anti-human IgG antiserum is determined by immunoelectrophoresis (IEP) versus human serum and human IgG prior to conjugation.

Identity and Purity

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 in the gamma region.

Protein concentration: 10-20 mg/mL

Molar Ratio (IgG:Peroxidase) = 0.6-1.5

Titers

Direct ELISA: minimum 1:30,000

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 450 nm after 30 minutes of substrate conversion at 25 °C.¹

Microtiter plates are coated with purified human 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), Catalog Number 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 Catalog Number P4922.

Dot Blot: a minimum dilution of 1:80,000 was determined in a direct chemiluminescence assay using 5 ng human IgG/dot. Luminol plus enhancer was used as substrate.

Immunohistology: a minimum dilution of 1:200 was determined by direct immunohistology using formalin-fixed, paraffin-embedded human tonsil sections.

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 antisera was maintained at pH 5.0 for 40 minutes to meet USDA requirements.

Reference

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

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