

Product Information

Anti-Chicken IgY (IgG) (whole molecule)-Peroxidase antibody produced in rabbit

affinity isolated antibody, buffered aqueous solution

Catalog Number **A9046**

Product Description

Antiserum is produced in rabbit using purified chicken IgY (IgG) as the immunogen. Affinity isolated antibody is obtained from rabbit anti-chicken antiserum by immunospecific purification which removes essentially all rabbit serum proteins, including immunoglobulins, which do not specifically bind to chicken IgY (IgG). Rabbit anti-chicken IgY (IgG) is then conjugated to peroxidase by protein cross-linking with 0.2% glutaraldehyde.

Specificity of the Peroxidase Conjugated Anti-Chicken IgY (IgG) antibodies is determined by immunoelectrophoresis (IEP) versus normal chicken serum and chicken IgY (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.

Reagent

Solution in 0.01 M phosphate buffered saline, pH 7.4, containing 0.05% MIT.

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.

Precautions and Disclaimer

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

Product Profile

ELISA: a minimum titer of 1:30,000 is recommended 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 chicken IgY (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 Cat. No. 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: In an Indirect chemiluminescence system using 5 ng human IgG/dot and chicken anti-human IgG as the primary antibody, this product is determined to have a minimum dilution of 1:160,000 when used as secondary antibody. Luminol plus enhancer was used as substrate.

Immunohistology: a minimum working dilution of 1:1,000 is recommended by indirect immunoperoxidase labeling of formalin-fixed, paraffin-embedded human tonsils using chicken anti-human IgG as the primary antibody.

Note: In order to obtain the best results, it is recommended that each individual user determine the optimum working dilution for their system by titration assay.

Reference

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

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