

Product Information

Anti-Chicken IgY (IgG) (Whole Molecule)

Antibody Produced in Rabbit

IgG Fraction of Antiserum, Buffered Aqueous Solution

A9792

Product Description

Antiserum is produced in rabbit using purified chicken IgY (IgG) as the immunogen. Whole antiserum is fractionated and then further purified by ion exchange chromatography to provide the IgG fraction of antiserum. This fraction is essentially free of other rabbit serum proteins. Anti-Chicken IgY (IgG) is then conjugated to peroxidase by protein cross linking with 0.2% glutaraldehyde.

Specificity of Anti-Chicken IgY (IgG) (whole molecule)-Peroxidase 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 in the gamma region.

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 0.05% MIT as a preservative.

IgG concentration: 10-20 mg/mL

Molar Ratio (IgG: Peroxidase) = 0.8 - 1.5

Storage

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

For R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Product Profile

Direct ELISA

Minimum 1:30,000

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-indirect

In an indirect chemiluminescence system using 5 ng human IgG/dot and chicken anti-human IgG as the primary antibody, this product was 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 dilution of 1:500 was determined in an indirect assay using formalin-fixed, paraffin-embedded human pancreas sections and chicken anti-human insulin 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 WHO, **53**: 55 (1976).

Notice

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