

Product Information

Anti-Rat IgG (whole molecule)–Peroxidase antibody produced in rabbit

affinity isolated antibody, buffered aqueous solution

Catalog Number **A5795**

Product Description

Anti-Rat IgG (whole molecule) is produced in rabbit using as immunogen purified rat IgG. The antibody is isolated from Anti-Rat IgG antiserum by immunospecific purification which removes essentially all rabbit serum proteins, including immunoglobulins, which do not specifically bind to rat IgG. The antibody preparation is solid phase adsorbed with human IgG to ensure minimal cross reactivity in tissue or cell preparations. Anti-Rat IgG is conjugated to peroxidase by protein cross linking with 0.2% glutaraldehyde.

Specificity of the Anti-Rat IgG is determined by immunoelectrophoresis (IEP) using normal rat serum and rat IgG. The conjugate shows no reaction with human IgG by IEP.

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

Reagent

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

Precautions and Disclaimer

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

Storage/Stability

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.

Product Profile

IgG concentration: 4-11 mg/ml

Molar Ratio (IgG: Peroxidase): 0.6-1.5

Direct ELISA: minimum dilution 1:50,000

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

Multiwell plates are coated with purified rat IgG at a concentration of 5 µg/ml in 0.05 M carbonate-bicarbonate buffer, pH 9.6.

Carbonate-Bicarbonate Buffer capsules, Catalog Number C3041.

Substrate: o-Phenylenediamine dihydrochloride (OPD), Catalog Number P 8287, 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, Catalog Number P4922.

Immunoblotting: a working dilution of

1:80,000 -1:160,000 is determined using immunoblot assay detecting rat monoclonal anti Caspase-12, in rat PC12 cells extract.

Immunohistology: a minimum dilution of 1:750 was determined in an indirect assay using formalin-fixed, paraffin-embedded human tonsil and rat anti-human IgG 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.

References

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

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