

Product Information

Anti-Goat IgG (whole molecule)–Biotin

antibody produced in rabbit, affinity isolated antibody

Catalog Number **B7014**

Product Description

Antiserum is developed in rabbit using purified goat IgG as the immunogen. Affinity isolated antigen specific antibody is obtained from anti-goat IgG antiserum by immunospecific purification which removes essentially all rabbit serum proteins, including immunoglobulins, that do not specifically bind to goat IgG. Anti-Goat IgG is conjugated to N-hydroxysuccinimidobiotin, Catalog Number H1759, by a modification of the method of Bayer, et al.¹

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

Reagent

Solution in 0.01 M phosphate buffered saline, pH 7.4, containing 1% BSA with 15 mM sodium azide as a preservative.

Precautions and Disclaimer

This product is 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

Store at –20 °C. For continuous use, the antibody may be stored at 2–8 °C for up to one month. For extended storage, the solution should be frozen in working aliquots at –20 °C. 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

The product is provided with a specific antibody content of 0.1 to 2.0 mg/mL (prior to the addition of BSA).

Working Dilution: minimum 1:20,000

Working dilution is defined as the dilution of conjugate that gives a change in absorbance of 1.0 at 492 nm after 30 minutes of substrate conversion at 25 °C.^{2,3}

Microtiter plates are coated purified goat IgG at a concentration of 200 ng/ml in 0.05 M carbonate-bicarbonate buffer, pH 9.6, Carbonate-Bicarbonate Buffer capsules are available as Catalog Number C3041.

Following incubation with the biotinylated antibody, a solution of Avidin-Peroxidase, Catalog Number A3151, diluted in 0.01 M phosphate buffered saline, pH 7.4, containing 0.05% TWEEN® 20 and 0.5% BSA, is added.

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.

References

1. Bayer, E., et al., *Methods in Enzymology*, **62**, 308 (1979).
2. Voller, A., et al., *Bull. World Health Organ.*, **53**, 55 (1976).
3. Guedson, J., et al., *J. Histochem. and Cytochem.*, **27**, 1131 (1979).

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