



Product Information

ANTI-MOUSE IgG (WHOLE MOLECULE) BIOTIN CONJUGATE

Affinity Isolated Antigen Specific Antibody
Adsorbed with Rat Serum Proteins

Product Number **B 8774**

Product Description

Anti-Mouse IgG (whole molecule) is developed in goat using purified mouse IgG as the immunogen. Affinity isolated antigen specific antibody is obtained from goat anti-mouse IgG antiserum by immunospecific purification which removes essentially all goat serum proteins, including immunoglobulins, that do not specifically bind to mouse IgG. The antibody preparation is solid phase adsorbed with rat serum proteins to ensure minimal cross reactivity in tissue or cell preparations. Goat anti-mouse IgG is conjugated to N-hydroxysuccinimidobiotin (Product No. H 1759).

Specificity of the anti-mouse IgG antibodies is determined by immunoelectrophoresis (IEP) versus normal mouse serum and mouse IgG. Cross-reactivity of the antibody preparation is determined by Ouchterlony Double Diffusion (ODD). The antibody shows no reactivity with rat serum proteins.

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

Reagents

The conjugate is provided as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 1% BSA, and 0.1% sodium azide as a preservative.

Precautions and Disclaimer

Due to the sodium azide content a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Consult the MSDS for information regarding hazards and safe handling practices.

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 is not recommended. 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 working dilution (1:20,000 minimum) 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 with purified mouse 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 Product No. C 3041). Following incubation with the biotinylated antibody, a solution of Avidin-Horseradish Peroxidase (Product No. A 3151, 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, Product No. P 8287), 0.4 mg/ml in 0.05 M phosphate-citrate buffer, pH 5.0, containing 0.03% sodium perborate (Phosphate-Citrate Buffer Capsules with Sodium Perborate are available as Product No. P 4922).

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

References

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

JWM/KMR 05/02

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