

Product Information

Anti-Mouse IgG (whole molecule)

Peroxidase Conjugate

Antibody developed in Sheep
Affinity Isolated Antigen Specific Antibody
Adsorbed with Human Serum Proteins

Product No. **A 6782**

Product Description

Anti-Mouse IgG is developed in sheep using purified mouse IgG as the immunogen. Affinity isolation removes essentially all sheep serum proteins, including immunoglobulins that do not specifically bind to mouse IgG. The antibody preparation is solid phase adsorbed with human serum proteins to ensure minimal cross reactivity in tissue or cell preparations. Goat anti-mouse IgG is conjugated to Sigma Horseradish Peroxidase, Type VI by a modification of the periodate method of Wilson and Nakane.¹

Specificity of Peroxidase Conjugated Anti-Mouse IgG is determined by Enzyme Linked Immunosorbent Assay (ELISA). The conjugate shows no reactivity with human serum proteins.

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

Reagents

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

Precautions and Disclaimer

Consult the MSDS for information regarding hazards and safe handling practices.

Product Profile

A minimum titer of 1:10,000 is determined 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 mouse 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 Product No. C 3041).

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).

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.

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.

Reference

1. Wilson, M., and Nakane, P., Immunofluorescence and Related Staining Techniques, p. 215, (Elsevier-North Holland BioMedical Press, Amsterdam 1978).
2. Voller, A., et al., Bull. World Health Organ., **53**, 55 (1976).

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