

Technical Bulletin

Anti-Mouse IgG (Whole Molecule) Peroxidase Conjugate

Affinity Isolated Antigen Specific Antibody
Antibody developed in Sheep

A5906

Storage Temperature -20 °C

Product Description

Anti-Mouse IgG (whole molecule) is developed in sheep using purified mouse IgG as the immunogen. Affinity isolated antigen specific antibody is obtained from sheep anti-mouse IgG antiserum by immunospecific purification which removes essentially all sheep serum proteins, including immunoglobulins, that do not specifically bind to mouse IgG. Sheep anti-mouse IgG is conjugated to Horseradish Peroxidase, Type VI (Cat. No. P8375), by a modification of the periodate method of Wilson and Nakane.¹

Identity and purity of the antibody is established by immunoelectrophoresis (IEP), prior to conjugation. Electrophoresis of the antibody preparation followed by diffusion against anti-sheep IgG and anti-sheep 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 with preservative.

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.

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

Minimum Titer 1:12,000 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.² 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 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 Capsules with Sodium Perborate are available as Cat. No. P4922).

Working dilution should be determined by titration assay. Due to product improvement and changes in the assay procedure, we now list a lot specific titer by direct ELISA for this product. Due to differences in assay systems, this titer may not reflect the user's actual working dilution.

References

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

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