Product Information

Anti-Bovine IgG (whole molecule)-Peroxidase
produced in rabbit, IgG fraction of antiserum

Catalog Number A8917

Product Description
Antiserum is produced in rabbit using purified bovine IgG as the immunogen. Whole antiserum is fractionated and then further purified by ion exchange chromatography to provide the IgG fraction of antiserum. This fraction is essentially free of other rabbit serum proteins. Anti-Bovine IgG is then conjugated to peroxidase by protein cross linking with 0.2% glutaraldehyde.

Specificity of the Anti-Bovine IgG (whole molecule)-Peroxidase is determined by immunoelectrophoresis (IEP) versus normal bovine serum and bovine IgG.

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

Reagent
Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 0.01% thimerosal 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
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, 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
Antibody concentration: 10-20 mg/ml

Molar Ratio (IgG/Peroxidase): 0.7-1.5

In an agar diffusion assay the conjugate produces a precipitation arc at a minimum dilution of 1:32 versus a dilution of bovine serum.

Direct ELISA: minimum 1:20,000
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

Substrate: o-Phenylenediamine dihydrochloride (OPD), Catalog No. 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 No. P4922.

Dot Blot: in an indirect chemiluminescence system using 5 ng IgG/dot and bovine anti-rabbit IgG as the primary antibody, this product was determined to have a dilution of 1:80,000 when used as secondary antibody. Luminol plus enhancer was used as substrate.

Immunohistology: a minimum dilution of 1:1,000 was determined by an indirect assay using formalin-fixed, paraffin-embedded rabbit spleen and bovine anti-rabbit 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.

Reference

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