

Product Information

Anti-Bovine IgG (Whole Molecule)-Peroxidase Antibody produced in Rabbit

Affinity Isolated Antibody, Buffered Aqueous Solution

A5295

Product Description

Antiserum is produced in rabbit using purified bovine IgG as the immunogen. Affinity isolated antibody is obtained from rabbit anti-bovine antiserum by immunospecific purification which removes essentially all rabbit serum proteins, including immunoglobulins, which do not specifically bind to bovine IgG. Rabbit anti-bovine IgG is then conjugated to peroxidase by protein cross-linking with 0.2% glutaraldehyde.

Specificity

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

Identity and Purity

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.

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 0.05% MIT as a 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

Store at -20 °C for extended use. For continuous use, store at 2-8 °C for up to one month. For extended storage, the solution may 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

Molar Ratio: (IgG:Peroxidase) = 0.6-1.5

Direct ELISA

Minimum Titer 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

Microtiter plates are coated with purified bovine 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 with Sodium Perborate capsules are available as Cat No. P4922).

Dot Blot (chemiluminescent)

This product was determined to have a minimum dilution of 1:80,000 when used as secondary antibody in an Indirect chemiluminescence system using 10 ng rabbit IgG/dot and bovine anti-rabbit IgG as the primary antibody, Luminol plus enhancer was used as substrate.

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Immunohistochemistry

A minimum dilution of 1:1,000 was obtained in an indirect assay using formalin-fixed, paraffin-embedded rabbit spleen and bovine anti-rabbit IgG as the primary antibody.

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

Reference

1. Voller, A., et al., Bulletin WHO, **53**, 55 (1976).

Notice

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