

Technical Bulletin

Anti-Pig IgG (Whole Molecule)-Peroxidase Antibody Produced in Rabbit

Affinity isolated antibody, buffered aqueous solution

A5670

Product Description

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

Specificity of the Anti-Pig IgG- Peroxidase is determined by immunoelectrophoresis (IEP) against normal pig serum and pig IgG.

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

Reagents

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

For continuous use, store at 2-8 °C 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

Molar Ratio (IgG:Peroxidase) 0.6 -1.5

Direct ELISA

A working dilution of 1:40,000 was determined using 5 µg/mL purified pig IgG for coating.

Dot Blot (chemiluminescence)

A working dilution of at least 1:150,000 was determined in a direct chemiluminescence assay using 20 ng pig IgG/dot. Luminol plus enhancer was used as substrate.

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.

References

1. Voller, A., et al., *Bull. World Health Organ.*, **53**, 55 (1976).

Notice

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