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Product Information

ANTI-HUMAN IgG (γ -CHAIN SPECIFIC)

R-PHYCOERYTHRIN CONJUGATE

Antibody Developed in Goat

F(ab')₂ Affinity Isolated Antigen Specific Antibody

Product Number **P 8047**

Product Description

Anti-Human IgG (γ -Chain Specific) is developed in goat using purified human IgG as the immunogen. The F(ab')₂ fragment of the antibody is obtained from pepsin digested antiserum by immunospecific methods of purification. Affinity isolation removes essentially all goat serum proteins, including immunoglobulins which do not specifically bind to the γ -chain of human IgG. Goat Anti-Human IgG is conjugated to Sigma R-Phycoerythrin (Product No. P 8912) by a modification of the method of Kronick.¹ Unbound phycoerythrin is removed by gel filtration chromatography.

Specificity for the γ -chain of human IgG is determined by Ouchterlony Double Diffusion (ODD). The antibody preparation is specific for human IgG when tested against purified human IgA, IgG, IgM, Bence Jones Kappa, and Bence Jones Lambda myeloma proteins, prior to conjugation.

Identity and purity of the antibody is established by immunoelectrophoresis (IEP), prior to conjugation. Electrophoresis of the antibody preparation followed by diffusion versus anti-goat IgG and anti-goat whole serum results in single arcs of precipitation. The antibody preparation is found to consist only of the F(ab')₂ fragment of goat IgG as determined by SDS-Polyacrylamide Gel Electrophoresis (PAGE). No contamination with goat IgG whole molecule is observed.

Reagents

The conjugate is provided as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 1% BSA with 0.1% sodium azide as a preservative.

Precautions and Disclaimer

Due to the sodium azide content a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Consult the MSDS for information regarding hazards and safe handling practices.

Storage/Stability

For continuous use, store at 2-8 °C. 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

A minimum working dilution of 1:32 was determined by direct immunofluorescent labeling of human peripheral blood lymphocytes.

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

References

1. Kronick, M. N., J. Immunol. Methods, **92**, 1-13 (1986).
2. Jackson, A. L., and Warner, N. L., *Manual of Clinical Laboratory Immunology*, 3rd Edition, p.226 (1986).

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