



3050 Spruce Street
Saint Louis, Missouri 63103 USA
Telephone 800-325-5832 • (314) 771-5765
Fax (314) 286-7828
email: techserv@sia1.com
sigma-aldrich.com

Product Information

Anti-Human IgG (γ -chain specific)

R-Phycoerythrin Conjugate

Affinity Isolated Antibody

Antibody Developed in Goat

Product No. **P 9170**

Product Description

Anti-human IgG (γ -chain specific) is developed in goat using purified human IgG as the immunogen. Affinity isolated antigen specific antibody is obtained from goat anti-human IgG antiserum by immunospecific purification which 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.

Reagents

The conjugate is provided as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 0.1 mM EDTA, 0.1mM iodoacetamide, 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.

Product Profile

The product is provided with a specific antibody content of 0.1-1.5 mg/ml (prior to the addition of BSA).

A minimum working dilution of 1:16 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.

Storage/Stability

Store at 2-8 °C. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use.

References

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

kaa 09/03

Sigma brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.