



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

Product Information

**ANTI-RABBIT IgG (WHOLE MOLECULE)
ALKALINE PHOSPHATASE CONJUGATE
Affinity Isolated Antigen Specific Antibody
Antibody Adsorbed with Human Serum Proteins**

Product No. **A 7539**

Store at 2-8 °C

Product Description

Antiserum is developed in goat using purified rabbit IgG as the immunogen. Antibody is isolated from goat anti-rabbit IgG antiserum by immunospecific purification which removes essentially all goat serum proteins, including immunoglobulins that do not specifically bind to rabbit IgG. The antibody preparation is solid phase adsorbed with human serum proteins to ensure minimal cross reactivity in tissue or cell preparations. Goat anti-Rabbit IgG is conjugated to Sigma Alkaline Phosphatase, Type VII-S (Sigma Product No. P 7923) by protein cross linking with 0.2% glutaraldehyde.¹

Specificity of the alkaline phosphatase conjugated anti-Rabbit IgG is determined by Enzyme Linked Immunosorbent Assay (ELISA). Cross reactivity of the antibody-conjugate is determined by ELISA. The conjugate shows no reactivity with human serum proteins.

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 a single arc of precipitation.

Reagents

The conjugate is provided as a solution in 0.05 M Tris buffer, pH 8.0, containing 1% BSA, 1 mM MgCl₂, with 0.1% sodium azide as a preservative.

Precautions and Disclaimer

Working dilution should be determined by titration assay. Due to differences in assay systems, this titer may not reflect the user's actual working dilution.

Product Profile

Minimum 1:7,000 (Direct ELISA)

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 405 nm after 30 minutes of substrate conversion at 25 °C (Voller, et al.²). Microtiter plates are coated with purified rabbit 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 Product No. C 3041).

Substrate: *p*-Nitrophenyl Phosphate (pNPP, Sigma Product No. N 2765), 1.0 mg/ml in 10% diethanolamine buffer, pH 9.8, containing 0.5 mM MgCl₂.

Protein Concentration = 0.5 to 4.0 mg conjugate/ml

Storage: Store at 2-8 °C. **Do Not Freeze.**

References

1. Avrameas, V., Immunochemistry, **6**, 43 (1969).
2. Voller, A., et al., Bulletin WHO, **53**, 55 (1976).

Pcs9/99

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