SIGMA

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

ProductInformation

Anti-Rabbit IgG (Whole Molecule)
Developed in Goat
Affinity Isolated Antibody

Product Number **R 2004**

Product Description
Antiserum is developed in goat using purified rabbit IgG as the immunogen. Affinity isolated antigen specific antibody is obtained from goat anti-rabbit antiserum by immunospecific purification which removes essentially all goat serum proteins, including immunoglobulins, which do not specifically bind to rabbit IgG.

The antiserum is determined to be immunospecific for rabbit IgG by immunoelectrophoresis (IEP) against normal rabbit serum and rabbit IgG.

Identity and purity of the antibody is established by immunoelectrophoresis. Electrophoresis of the antibody preparation followed by diffusion against anti-goat IgG and anti-goat whole serum results in single arcs of precipitation.

Reagents
The purified antibody is lyophilized from 0.01 M sodium phosphate, 0.015 M sodium chloride, pH 7.2, to which no preservatives have been added.

Reconstitution
To one vial of lyophilized powder add sufficient 0.135 M sodium chloride to achieve a 1mg/ml solution of antibody. Rotate vial gently until powder dissolves. This will yield a protein solution in 0.01 M phosphate buffered saline.

Storage/Stability
Prior to reconstitution store the product at 2-8 °C. After reconstitution, the solution may be stored frozen in working aliquots. Repeated freezing and thawing is not recommended. If slight turbidity occurs upon prolonged storage clarify the solution by centrifugation before use.

Product Profile
The protein content is determined, after reconstitution with 1.0 ml of 0.135 M NaCl, by absorbance at 280 nm using $E_{280}^{1\%} = 14$.

One milligram of affinity isolated antibody will react with 0.5-2.0 mg of rabbit IgG as determined by single radial immunodiffusion (Becker).[1]

References
1. Becker, W., Immunochemistry, **6**, 539 (1969).

JWM/KMR 09/02