

Product Information

Anti-Rabbit IgG (whole molecule)
F(ab')₂ fragment of affinity isolated antibody
produced in goat

Product No. **R 9130**

Product Description

Antiserum is developed in goat using purified rabbit 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 rabbit IgG. 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.

Specificity

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

Identity and Purity

Identity and purity of the antibody is established by immunoelectrophoresis. 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.

Protein Content

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

Titer

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

Reconstitution and Storage Instructions

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. 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.

Reference

1. Becker, W., Immunochem., **6**, 539 (1969).

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