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## Product Information

### ANTI-HUMAN IgG ( $\gamma$ -CHAIN SPECIFIC) Developed In Goat Affinity Isolated Antigen Specific Antibody

Product Number I 3382

#### Product Description

Anti-human IgG ( $\gamma$ -chain specific) in developed in goat using purified human IgG as immunogen. Affinity isolated antigen specific antibody is obtained by immunospecific purification to remove essentially all goat serum proteins, including immunoglobulins which do not specifically bind to the  $\gamma$ -chain of human IgG.

Specificity for the  $\gamma$ -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.

Identity and purity of the antibody is established by immunoelectrophoresis (IEP). 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 antibody preparation is lyophilized from 0.01 M sodium phosphate, 0.015 M sodium chloride, pH 7.2, to which no preservatives have been added.

#### Reconstitution and Storage

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

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 determined after reconstitution with 1.0 ml of 0.135 M sodium chloride, by absorbance at 280 nm using  $E_{280}^{1\%} = 14.0$ .

One milligram of affinity isolated antigen specific antibody will react with 0.5-2.0 mg of human IgG as determined by single radial immunodiffusion.<sup>1</sup>

#### References

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

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