

## Product Information

### Anti-Human IgG (Fab specific)

produced in goat, affinity isolated antibody

Catalog Number **I5260**

#### Product Description

Anti-Human IgG (Fab specific) antiserum is produced in goat using purified human IgG Fab fragment as the immunogen. Affinity isolated 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 Fab fragment of human IgG.

Specificity for the Fab fragment of human IgG is determined by ELISA and immunoelectrophoresis (IEP). The antibody preparation is tested against purified human IgA, IgG (Fc and Fab fragments), IgM, Bence Jones Kappa and Bence Jones Lambda myeloma proteins. No reactivity is observed with the Fc fragment of human IgG. When tested by Ouchterlony double diffusion (ODD) the product shows no interspecies cross reaction with mouse or rat IgG.

Identity and purity of the antibody is established by immunoelectrophoresis (IEP). Electrophoresis of the antibody preparation, followed by diffusion versus anti-goat IgG and anti-goat whole serum, results in a single arc of precipitation.

#### Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide as a preservative.

This goat antiserum was maintained at pH 5.0 for 40 minutes to meet U.S.D.A. requirements.

#### Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

#### Storage/Stability

For continuous use, store at 2-8 °C for up to one month. For extended storage, the solution may be frozen in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use.

#### Product Profile

The affinity purified anti-human IgG (Fab specific) reagent offers the advantage of increased sensitivity for human immunoglobulins without cross reactivity with other substances present on membrane or cell surface. The lack of interspecies cross reactivity with mouse or rat serum proteins makes this product excellent for the screening of human monoclonal antibodies produced by hybridoma cells grown *in vivo* in mouse or rat ascites fluids. This product has the ability to detect all human immunoglobulins in human biological fluids or tissues of normal or pathological situations such as cancer or autoimmune diseases. It is effective as a second antibody reagent in immunoassay procedures and can be used as starting material for conjugates using enzymes or fluorescent dyes.

Indirect ELISA: a working dilution of 1:50,000 was determined using 5 µg/ml of human IgG for coating

**Note:** In order to obtain the best results in various techniques and preparations we recommend determining the optimal working dilutions by titration.

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