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Product Information

Anti-Human IgG (Fc specific)
produced in goat, affinity isolated antibody

Catalog Number **I2136**

Product Description

Anti-Human IgG (Fc specific) antiserum is produced in goat using purified human IgG, Fc 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 Fc fragment of human IgG.

Reagents

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

Indirect ELISA: a working dilution of 1:10,000 is determined using human IgG for coating.

Specificity for the Fc fragment of human IgG is determined by ELISA and immunoelectrophoresis (IEP). The antibody preparation is specific for human IgG, Fc fragment when 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 Fab fragment of human IgG, light chains, IgA, or IgM.

The affinity purified anti-human IgG (Fc specific) reagent offers the advantage of increased sensitivity for human IgG 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 IgG subclasses 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.

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