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Product Information

Monoclonal Anti-Human IgG (Fc specific)
Clone GG-7
produced in mouse, ascites fluid

Catalog Number **I 6260**

Product Description

Monoclonal Anti-Human IgG (mouse IgG1 isotype) is derived from the hybridoma[1] produced by the fusion of mouse myeloma cells and splenocytes from an immunized mouse. Purified human IgG myeloma proteins covalently coupled to polyaminostyrene (PAS) microbeads were used as the immunogen. The isotype is determined by a double diffusion assay using immunoglobulin and subclass specific antisera.

Monoclonal Anti-Human IgG (Fc specific) is specific for the Fc fragment of human IgG as determined by an ELISA. Reactivity is observed with all human IgG subclasses, but not with the Fab fragment of human IgG, purified light chains, human IgA, or human IgM.

Monoclonal Anti-Human IgG (Fc specific) can be used for various immunoassays including: ELISA, Imprint Immunofixation (IIF), Immunofluorometric Assay (IFMA), hemagglutination (HA), Hemagglutination Inhibition (HAI), Particle Counting Immunoassay (PACIA), and detection of cytoplasmic IgG.

Although the antibody site is located in the terminal end of human IgG (part of the Fab fragment), the Fc portion has various important functions such as complement fixation, site for rheumatoid factor (autoantibody directed to Fc) attachment, passage through the placental membrane and protein A binding. A certain population of lymphocytes also posses a "Fc receptor". These functions indicate the importance of immuno-reagents specific for the Fc fragment of human IgG.

Reagent

Supplied as ascites fluid with 15mM sodium azide as a preservative.

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

ELISA: a minimum dilution of 1:5,000 was determined using 5 µg/ml of freshly prepared human IgG for coating.

Note: In order to obtain best results it is recommended that each individual user determine their optimum working dilution by titration assay.

References

1. Reimer, C.B., et al., *Hybridoma*, **3**, 263 (1984).

MG,KAA,PHC 01/09-1