Product No. R-1008
Lot 116H4825

Monoclonal Anti-Rabbit IgG (γ-chain specific)

Mouse Ascites Fluid
Clone RG-96

Monoclonal Anti-Rabbit IgG (mouse IgG1 isotype) is derived from the hybridoma produced by the fusion of mouse myeloma cells and splenocytes from an immunized mouse. Purified rabbit IgG was used as the immunogen. The isotype is determined using Sigma ImmunoType™ Kit (Sigma Stock No. ISO-1) and by a double diffusion immunoassay using Mouse Monoclonal Antibody Isotyping Reagents (Sigma Stock No. ISO-2). The product is provided as ascites fluid with 0.1% sodium azide (see MSDS)* as a preservative.

Specificity

Monoclonal Anti-Rabbit IgG is specific for an epitope located on the heavy (γ) chain of rabbit IgG, in an immunoblot of denatured, reduced rabbit IgG. The antibody does not react with rabbit IgA, IgM or light chains. No cross reactivity is observed with IgG from bovine, cat, chicken, dog, goat, guinea pig, horse, human, pig, rat or sheep.

Description

Rabbit antibodies against many analytes are widely used in research as primary antibodies in various assay techniques. Second antibodies that are used to detect rabbit antibodies may lack specificity for rabbit immunoglobulins and in many instances will also recognize other immunoglobulins that appear in the preparation being tested. This results in the need for extensive adsorption of the second antibody. Therefore, using a monoclonal antibody to rabbit IgG which is devoid of a binding capacity to other species can serve as a useful tool in many applications.

Uses

Monoclonal Anti-Rabbit IgG may be used for the localization of rabbit IgG in a variety of immunochemical assays, such as ELISA, dot blots. In immunohistology, this monoclonal antibody may be used as a secondary reagent or as a bridging antibody in an unlabeled antibody-enzyme system such as PAP (Peroxidase Anti-Peroxidase) or APAAP (Alkaline Phosphatse Anti-Alkaline Phosphatase).

Working Dilution

A working dilution of 1:10,000 was determined by ELISA using 10 µg/ml of rabbit IgG for the coat.

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

Storage

For continuous use, store at 2-8°C. For extended storage, solution may be frozen in working aliquots. Repeated freezing and thawing is **not** recommended. If slight turbidity occurs upon prolonged storage, clarify by centrifugation before use.

*Due to the sodium azide content a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Consult the MSDS for information regarding hazards and safe handling practices.