



3050 Spruce Street
Saint Louis, Missouri 63103 USA
Telephone 800-325-5832 • (314) 771-5765
Fax (314) 286-7828
email: techserv@sial.com
sigma-aldrich.com

Product Information

MONOCLONAL ANTI-RABBIT IMMUNOGLOBULINS CLONE RG-16 Mouse Ascites Fluid

Product No. I 0138

Product Description

Monoclonal Anti-Rabbit Immunoglobulins (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 (Product Code ISO-1) and by a double diffusion immunoassay using Mouse Monoclonal Antibody Isotyping Reagents (Product Code ISO-2).

Monoclonal Anti-Rabbit IgG is specific for an epitope located on the heavy chain of rabbit IgG, IgA and IgM. In an immunoblot of denatured non-reduced rabbit immunoglobulins the antibody stains bands at the intact rabbit immunoglobulin molecules and at the heavy chains. Reduction of the rabbit immunoglobulins appears to destroy the epitope. The antibody does not react with human tissue or serum components. When tested in ELISA, the product does not cross react with IgG from bovine, cat, chicken, dog, goat, guinea pig, horse, human, pig, rat, sheep, or turkey.

Monoclonal Anti-Rabbit Immunoglobulins may be used for the localization of rabbit immunoglobulins in a variety of immunochemical assays, such as ELISA, immunoblots, dot blots. In immunohistochemistry 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 Phosphatase anti-Alkaline Phosphatase).

Rabbit antibodies against many analytes are widely used in research as primary antibodies in various assay techniques. Second antibodies are that used to detect goat 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 that is devoid of a binding capacity to other species can serve as a useful tool in many applications.

Reagents

The product is provided as ascites fluid with 0.1% sodium azide as a preservative.

Precautions and Disclaimer

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.

Product Profile

A working dilution of at least 1:10,000 is 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 up to one month. 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.

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