



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 IgG

( $\gamma$ -chain specific)-FITC

Clone RG-96

produced in mouse, purified immunoglobulin

Catalog Number **F4151**

#### Product Description

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 by a double diffusion immunoassay using Mouse Monoclonal Antibody Isotyping Reagents, Catalog Number ISO2. The immunoglobulin fraction of the ascites fluid is conjugated to fluorescein isothiocyanate (FITC) and then further purified to remove unconjugated FITC.

Monoclonal Anti-Rabbit IgG ( $\gamma$ -chain specific) recognizes an epitope located on the  $\gamma$  (heavy)-chain of rabbit IgG. In immunoblotting, the antibody recognizes both native and denatured forms of rabbit IgG. In ELISA, the antibody is specific for rabbit IgG, and shows no cross-reactivity with rabbit IgA and IgM or human IgG, IgA, and IgM. No cross-reaction is observed with IgG from the following species: bovine, cat, chicken, dog, goat, guinea pig, horse, pig, rat, or sheep.

Rabbit antibodies are widely used in research as primary antibodies. Polyclonal secondary antibodies that are used to detect rabbit antibodies may lack specificity for rabbit immunoglobulins, and may also recognize other immunoglobulins that appear in the preparation being tested. This results in the need for extensive adsorption of the second antibody. Using a monoclonal antibody to rabbit IgG which is devoid of binding to other species can serve as a useful tool in many applications.

Monoclonal Anti-Rabbit IgG- FITC may be used as a reagent in direct and indirect immunohistological assays and in fluorescent dot immunobinding reactions.

#### Reagent

Supplied as a solution in 0.01 M phosphate buffer, pH 7.4, containing 1% BSA and 15 mM sodium azide as a preservative.

Protein content by absorbance:  $E_{280}^{1\%} = 14.0$   
F/P Molar Ratio: 3-8

#### 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

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, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify by centrifugation before use.

#### Product Profile

Fluorescent dot immunobinding assay (F-DIBA):  
minimum working dilution on a 4-8  $\mu$ g dot of rabbit IgG is 1:64.

Particle Immunofluorescence Assay (P-IFMA):  
minimum working dilution on a 50  $\mu$ L suspension of Rabbit IgG-Agarose, Catalog No. A2909, is 1:32.

Indirect immunohistological labeling:  
The minimum working dilution for formalin-fixed, paraffin-embedded human tonsil using rabbit anti-human IgG as the primary antibody is 1:20.

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

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