Product Information

3050 Spruce Street, Saint Louis, MO 63103 USA
Tel: (800) 521-8956 (314) 771-5765 Fax: (800) 325-5052 (314) 771-5757
email: techservice@sial.com sigma-aldrich.com

Anti-Rabbit IgG (whole molecule), F(ab′)$_2$ fragment–FITC
produced in goat, affinity isolated antibody

Catalog Number **F1262**

Product Description

Anti-Rabbit IgG is produced in goat using purified rabbit IgG as the immungen. The F(ab′)$_2$ fragment of the antibody is obtained from pepsin-digested antiserum by immunospecific methods of purification. Affinity isolation removes essentially all goat serum proteins, including immunoglobulins, which do not specifically bind to rabbit IgG. The antibody preparation is tested using 8.5% SDS polyacrylamide gel elelctrophoresis (PAGE) to ensure that no goat IgG (whole molecule) remains. Goat anti-rabbit IgG is then conjugated to Fluorescein Isothiocyanate (FITC), Isomer I, Catalog Number F7250. Following conjugation, unbound FITC is removed by extensive dialysis.

Identity and Purity

Identity and purity of the antibody is established by immunoelectrophoresis (IEP), prior to conjugation. Electrophoresis of the antibody preparation followed by diffusion versus anti-goat IgG and anti-goat whole serum results in single arcs of precipitation. The antibody preparation is found to consist only of the F(ab′)$_2$ fragment of goat IgG as determined by SDS-Polyacrylamide Gel Electrophoresis (PAGE). No contamination with goat IgG whole molecule is observed.

Reagent

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

Antibody content: 1.1 mg/mL (prior to the addition of BSA).

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 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

A minimum titer of 1:40 is determined by indirect immunofluorescent labeling of mouse spleen cells using rabbit anti-mouse IgG (whole molecule) as the primary antibody.

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

F/P Molar Ratio: 3-5

A_{280}/A_{496}: 1.0-1.5

The F/P molar ratio is determined spectrophotometrically as follows:

$F = A_{496}/0.15$

$P = A_{280} - (A_{496} \times 0.32)/1.4$

F/P Molar Ratio = F/P x 0.41

Where:
0.15 = The extinction coefficient of bound FITC at a concentration of 1 μg per ml at pH 7.2.
0.32 = The fluorochrome absorbance correction factor (non-protein absorbance).
0.41 = The factor for conversion of fluorochrome to protein ratios from weight to molar ratios.

KAA,PHC 11/07-1