



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

Anti-Mouse IgG (whole molecule)–FITC

produced in sheep, affinity isolated antibody,
adsorbed with human serum proteins

Catalog Number **F3008**

Product Description

Antiserum is produced in sheep using purified mouse IgG as the immunogen. Affinity isolated antigen specific antibody is obtained from sheep anti-mouse IgG antiserum by immunospecific purification, which removes essentially all sheep serum proteins, including immunoglobulins, which do not specifically bind to mouse IgG. The antibody preparation is solid phase adsorbed with human serum proteins to ensure minimal cross reactivity in tissue or cell preparations. The antibody preparation is then conjugated to Fluorescein Isothiocyanate (FITC), Isomer I, Catalog Number F7250. Following conjugation, the FITC-antibody conjugate is extensively dialyzed to remove unbound FITC.

Specificity of anti-mouse IgG antibodies for mouse IgG is determined by immunoelectrophoresis (IEP) and Ouchterlony double diffusion (ODD) with normal mouse serum and mouse IgG, prior to conjugation. Cross-reactivity of the antibody is determined by immunoelectrophoresis and ODD, prior to conjugation. The antibody shows no reactivity with human serum proteins.

Identity and purity of the antibody is established by immunoelectrophoresis prior to conjugation. Electrophoresis of the antibody preparation followed by diffusion versus anti-sheep IgG and anti-sheep whole serum results in single arcs of precipitation.

Reagent

The product is provided with an anti-mouse IgG specific antibody content of at least 1.0 mg/ml.

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.

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.

Titer

A minimum titer of 1:32 is determined by direct immunofluorescent labeling of mouse spleen cells.

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

F/P Molar Ratio: 3-5

A_{280}/A_{496} : 1-1.5

The F/P Molar Ratio of the FITC-antibody conjugate is determined spectrophotometrically as follows:

$$F = A_{496}/0.15$$

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

$$\text{F/P Molar Ratio} = F/P \times 0.41$$

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.

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