3050 Spruce Street, St. 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

Product Information

Anti-Chicken IgY (IgG) (whole molecule)-FITC
produced in rabbit, affinity isolated antibody

Catalog Number **F8888**

Product Description
Antiserum is produced in rabbit using as immunogen purified chicken IgY (IgG). Antibody is isolated from rabbit anti-chicken IgY (IgG) antiserum by immunospecific purification, which removes essentially all rabbit serum proteins including immunoglobulins, which do not specifically bind to chicken IgY (IgG). Rabbit Anti- Chicken IgY (IgG) is conjugated to fluorescein isothiocyanate (FITC). Free FITC is removed by gel filtration.

Specificity of the anti-chicken IgY (IgG) antibodies for chicken IgY (IgG) is determined by immunoelectrophoresis (IEP), prior to conjugation, using normal chicken serum and chicken IgY (IgG).

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

Reagent
The conjugate is provided as a solution in 0.01 M phosphate buffered saline, pH 7.4, with 15 mM sodium azide as a preservative.

Precautions
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, 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.

Note: Store product protected from light.

Product Profile
Immunofluorescence: a minimum dilution of 1:320 was determined using human peripheral blood lymphocytes.

Immunohistochemistry: a minimum dilution of 1:320 was determined using formalin-fixed, paraffin-embedded human tonsil sections and chicken anti-human IgG 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 assay.

Protein Concentration: 3.0-6.5 mg/ml by absorbance at 280 nm and 495 nm ($E^{1\%}_{280}$ = 14.0, $E^{1\%}_{495}$ = 15.0).

F/P Molar Ratio: 2.5-6.5

The F/P Molar ratio of FITC-antibody conjugates is determined spectrophotometrically as follows:

$$\frac{F}{P} = \frac{A_{495} \times 1.4 \times 0.41}{0.2 \times [A_{280} - (0.36 \times A_{495})]}$$

Where:
0.2 = The extinction coefficient of bound FITC at a concentration of 1 μg/ml at pH 7.2.
0.36 = 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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