Product Information

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Anti-Rabbit IgG (whole molecule), F(ab′)$_2$ fragment–Cy3
produced in sheep, affinity isolated antibody

Catalog Number **C2306**

Product Description

The F(ab′)$_2$ fragment of sheep anti-rabbit IgG is isolated from a pepsin digest of antiserum. Immunospecific methods of purification were used to remove essentially all sheep serum proteins, including immunoglobulins that do not specifically bind to rabbit IgG. The antibody preparation is then conjugated to Cy3.
The Cy3-antibody conjugate is extensively dialyzed to remove unbound Cy3.

Specificity of the anti-rabbit IgG antibody is determined by immunoelectrophoresis (IEP) followed by diffusion against normal rabbit serum, prior to conjugation.

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

Reagent

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

Store at 2-8 °C. Protect from prolonged exposure to light.

Product Profile

Minimum dilution: 1:100
Determined by indirect immunofluorescent labeling of formalin-fixed, paraffin-embedded human tonsil using Rabbit Anti-Human IgG (whole molecule), Catalog Number I2011), at a 1:100 dilution as the primary antibody. A rhodamine filter set may be used in fluorescence microscopy. For double labeling experiments with fluorescein, a narrow band pass filter is recommended because of the emission overlap between Cy3 and fluorescein.

Spectral Characteristics of Cy3

Absorbance Max	552 nm
Emission Max	565 nm
Molar Extinction Coefficient	1.5 X 10^5 $M^{-1}cm^{-1}$

F/P Molar Ratio
The F/P molar ratio of the Cy3-antibody conjugate is determined spectrophotometrically as follows:

$F = A_{552}/1.5 \times 10^5$

$P = [A_{280} - (A_{552} \times 0.05)]/1.5 \times 10^5$

F/P Molar Ratio = F/P

Where:
1.5×10^5 = molar extinction coefficient of Cy3 in F.
1.5×10^5 = molar extinction coefficient of the F(ab′)$_2$ fragment of IgG in P
0.05 = correction factor for Cy3 absorbance at 280 nm.

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.

References

1. Southwick, P.L., et al., *Cytometry*, **11**, 418 (1990).

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