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ProductInformation

Anti-Human IgG (Fc specific)
Cy3 Conjugate
Antibody Developed in Goat
Affinity Isolated Antigen Specific Antibody

Product No. **C2571**

Product Description

Antibodies are developed in goat using purified human IgG as immunogen. Affinity isolated antigen specific antibody is obtained by immunospecific purification to remove essentially all goat serum proteins, including immunoglobulins which do not specifically bind to the Fc fragment of human IgG. The antibody preparation is then conjugated to Cy3. The Cy3-antibody conjugate is extensively dialyzed to remove unbound Cy3.

Specificity for the Fc fragment of human IgG is determined by Ouchterlony Double Diffusion (ODD) prior to conjugation. The antibody preparation is specific for human IgG when tested against purified human IgA, IgG, IgM, the Fab fragment of human IgG, Bence Jones Kappa and Bence Jones Lambda myeloma proteins. The antibody show no interspecies cross-reaction with mouse or rat serum proteins.

Reagent

The product is provided as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 1% BSA with 15 M sodium azide as preservative.

Precautions and Disclaimer

Due to sodium azide content a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Consult the MSDS for information regarding hazards and safe handling practices

Product Profile

The product is provided with an immunoglobulin content of at least 1.0 mg/ml.

Spectral Characteristics of Cy3

Absorbance Max	552nm
Emission Max	570nm

F/P Molar Ratio: 3 to 9
The F/P molar ratio of the Cy3-antibody conjugate is determined spectrophotometrically as follows:

$$F = A_{552}/0.14 \qquad P = \frac{A_{280} - (A_{552} \times 0.05)}{1.4}$$

F/P Molar Ratio = F/P x 0.16
Where:

0.14	=	extinction coefficient of Cy3 at A_{552}.
1.4	=	extinction coefficient of IgG at A_{280}.
0.05	=	correction factor for Cy3 absorbance at A_{280}.
0.16	=	correction factor for molecular weights of Cy3 and IgG

The minimum working dilution of 1:30 was determined by direct immunofluorescent labeling of formalin-fixed, paraffin-embedded human tonsil sections. A rhodamine filter set may be used for detection 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.

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

Storage

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

References

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