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Product Information

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

Catalog Number **P8172**

Product Description

Anti-Rabbit IgG is developed in goat using purified rabbit IgG as the immunogen. 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 purified antibody is conjugated to R-phycoerythrin (Catalog No. P 8912) by a modification of the method of Kronick.[1]

Specificity of the anti-rabbit IgG antibodies is determined by immunoelectrophoresis (IEP) against rabbit serum and rabbit IgG, prior to conjugation. Identity and purity of the antibody is established by immunoelectrophoresis, prior to conjugation. Electrophoresis of the antibody preparation followed by diffusion against 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

The conjugate is supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 1% BSA and 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. Due to the 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. 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 is not recommended. Storage in "frost-free" freezers is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use.

Product Profile

The product is provided with a specific antibody content of 0.1–1.5 mg/ml (prior to the addition of BSA).

A_{567}/A_{280}: 1.5–5.0

The minimum working dilution of 1:20 was determined by indirect immunofluorescent labeling of chicken fibroblasts.

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. Kronick, M.N., J. Immunol. Methods, **92,1** (1986).
2. Jackson, A., and Warner, N., Manual of Clinical Laboratory Immunology, 3rd Edition, p. 226 (1986).

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