

# Product Information

## Anti-Mouse IgG (whole molecule) F(ab')<sub>2</sub> Fragment–R-Phycoerythrin antibody produced in sheep, affinity isolated antibody

Catalog Number **P8547**

### Product Description

Antiserum is developed in sheep using purified mouse IgG as the immunogen. The F(ab')<sub>2</sub> fragment of the antibody is obtained from pepsin-digested antiserum using immunospecific methods of purification. Affinity isolation removes essentially all sheep serum proteins, including immunoglobulins that do not specifically bind to mouse IgG. The antibody preparation is tested using 8.5% SDS polyacrylamide gel electrophoresis (PAGE) to ensure that no sheep IgG (whole molecule) remains. Sheep anti-mouse IgG, F(ab')<sub>2</sub> is then solid phase adsorbed with human serum proteins to ensure minimal cross reactivity in tissue or cell preparations. The purified antibody is conjugated to R-Phyco-erythrin (Catalog No. P8912) by a modification of the method of Kronick.<sup>1</sup>

Specificity of the anti-mouse IgG is determined by immunoelectrophoresis (IEP) versus mouse serum and mouse IgG, prior to conjugation. The affinity purified antibody reacts with mouse IgG subclasses G1, G2a, G2b, and G3 and with mouse IgA and IgM by Ouchterlony Double Diffusion (ODD). The sheep anti-mouse IgG shows no reactivity with human serum proteins by ODD or with human peripheral blood lymphocytes (pbl's) by flow cytometry. 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. The antibody preparation is found to consist only of the F(ab')<sub>2</sub> fragment of sheep IgG as determined by SDS-Polyacrylamide Gel Electrophoresis (PAGE). No contamination with sheep 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% bovine serum albumin and 15 mM sodium azide.

### 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 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

A minimum working dilution of 1:20 is determined by indirect immunofluorescent labeling of chicken fibroblasts using Mouse Monoclonal Anti-Tubulin (Catalog No. T4026) as the primary antibody.

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

$A_{567}/A_{280}$ : 1.5–5.0

### References

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

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