

Technical Bulletin

Anti-Mouse IgG (Whole Molecule)–R-Phycoerythrin

Antibody produced in goat, Affinity Isolated Antigen Specific Antibody,
Adsorbed with Human Serum Proteins

P9670

Product Description

Antiserum is developed in goat using purified mouse IgG as the immunogen. Affinity isolated antigen specific antibody is obtained from goat anti-mouse IgG anti-serum by immunospecific purification, which removes essentially all goat serum proteins, including immunoglobulins, which do not specifically bind to mouse IgG. The purified antibody is then conjugated to R-phycoerythrin (Cat. No. P8912) by a modification of the method of Kronick.¹

Specificity of the anti-mouse IgG antibodies 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 goat anti-mouse IgG antibodies show no reactivity with human serum proteins by ODD.

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

Reagents

Solution in 0.01 M phosphate buffered saline, pH 7.4, containing 0.1 mM EDTA, 1 mM iodoacetamide, 1% bovine serum albumin and 15 mM sodium azide.

Precautions

Due to the sodium azide content, a Safety Data Sheet (SDS) for this product has been sent to the attention of the safety officer of your institution. Consult the SDS for information regarding hazards and safe handling practices.

Product Profile

The product is provided with a conjugate content of 0.1-1.5 mg/mL (prior to the addition of BSA).

A₅₆₇/A₂₀₈₀: 1.5-5.0

Working Dilution: Minimum 1:20

The working dilution was determined by indirect immunofluorescent labeling of chicken fibroblasts using Mouse Monoclonal Anti-Tropomyosin (Cat. No. T4780) as the primary antibody.

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

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.

References

Kronick, M., J. Immunological Methods, **92**: (1986).

Jackson, A., and Warner, N., Manual of Clinical Laboratory Immunology, 3rd Edition, p. 226 (1986).

Notice

We provide information and advice to our customers on application technologies and regulatory matters to the best of our knowledge and ability, but without obligation or liability. Existing laws and regulations are to be observed in all cases by our customers. This also applies in respect to any rights of third parties. Our information and advice do not relieve our customers of their own responsibility for checking the suitability of our products for the envisaged purpose.

The information in this document is subject to change without notice and should not be construed as a commitment by the manufacturing or selling entity, or an affiliate. We assume no responsibility for any errors that may appear in this document.

Technical Assistance

Visit the tech service page at SigmaAldrich.com/techservice.

Standard Warranty

The applicable warranty for the products listed in this publication may be found at SigmaAldrich.com/terms.

Contact Information

For the location of the office nearest you, go to SigmaAldrich.com/offices.

The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the U.S. and Canada.

MilliporeSigma, and Sigma-Aldrich are trademarks of Merck KGaA, Darmstadt, Germany or its affiliates. All other trademarks are the property of their respective owners. Detailed information on trademarks is available via publicly accessible resources.

© 2021 Merck KGaA, Darmstadt, Germany and/or its affiliates. All Rights Reserved.

P9670dat Rev 08/21