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ProductInformation

ANTI-MOUSE IgG (Whole Molecule)
ALKALINE PHOSPHATASE CONJUGATE
Antibody Developed in Goat
Affinity Isolated Antigen Specific Antibody
Adsorbed with Human Serum Proteins

Product No. **A 4656**

Product Description

Anti-Mouse IgG (whole molecule) is developed in goat using purified mouse IgG as the immunogen. Affinity isolated antigen specific antibody is obtained from goat anti-mouse IgG antiserum by immunospecific purification which removes essentially all goat serum proteins, including immunoglobulins, which do not specifically bind to mouse IgG. The antibody preparation is solid phase adsorbed with human serum proteins to ensure minimal cross reactivity in tissue or cell preparations. Goat anti-Mouse IgG is conjugated to Sigma Alkaline Phosphatase, Type VII-S (Product No. P 5521) by protein cross linking with 0.2% glutaraldehyde.[1]

Cross reactivity of the antibody-conjugate is determined by Enzyme Linked Immunosorbent Assay (ELISA). The conjugate shows no reactivity with human serum proteins.

Identity and purity of the antibody is established by immunoelectrophoresis (IEP), 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

The conjugate is provided as a solution in 0.05M Tris buffer, pH 8.0, containing 1% BSA, 1mM $MgCl_2$, with 15 mM sodium azide as a preservative.

Precautions and Disclaimer

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. Consult the MSDS for information regarding hazards and safe handling practices.

Product Profile

Titer: Minimum 1:1,000 (Direct ELISA)
We are now reporting lot specific information as a titer by direct ELISA rather than as a working dilution. Titer is defined as the dilution of conjugate sufficient to give a change in absorbance of 1.0 at 405 nm after 30 minutes of substrate conversion at 25 °C (Voller, et al.[2]).
Microtiter plates are coated with purified mouse IgG at a concentration of 5 µg/ml in 0.05 M carbonate-bicarbonate buffer, pH 9.6 (carbonate-bicarbonate buffer capsules are available as Product No. C 3041).
Substrate: p-Nitrophenyl Phosphate (pNPP, Product No. N 2765), 1.0mg/ml in 10% diethanolamine buffer, pH 9.8, containing 0.5 mM $MgCl_2$.

Working dilution should be determined by titration assay. Due to differences in assay systems, this titer may not reflect the user's actual working dilution.

Storage

Store at 2-8 °C. **DO NOT FREEZE**

References

1. Avrameas, V., Immunochemistry, **6**, 43 (1969).
2. Voller, A., et al., Bull. World Health Organ., **53**, 55 (1976)

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