

Product Information

Anti-Human Polyvalent Immunoglobulins (α , γ and μ -chain specific-Alkaline Phosphatase produced in goat, affinity isolated antibody

Catalog Number **A3313**

Product Description

Antisera are developed in goats using purified human IgG, IgA and IgM as the immunogens. Affinity isolated antibodies are obtained from goat antiserum by immunospecific purification which removes essentially all goat serum proteins, including immunoglobulins, that do not specifically bind to the heavy chains (α , γ , μ) of human IgG, IgA and IgM. Each specific antibody is then conjugated to alkaline phosphatase by protein cross linking with 0.2% glutaraldehyde.¹ The product is prepared by combining the conjugated antibodies to ensure consistent immuno-enzymatic activity for each immunoglobulin.

Specificity is determined by Enzyme Linked Immunosorbent Assay (ELISA). The conjugate is specific for human IgG, IgA and IgM when tested against human IgA, IgG, IgM, Bence Jones Kappa, and Lambda myeloma proteins.

Identity and purity of the antibodies are established by immunoelectrophoresis (IEP), prior to conjugation. Electrophoresis of the antibody preparations followed by diffusion versus anti-goat IgG and anti-goat whole serum results in single arcs of precipitation.

Reagent

Supplied as a solution in 0.05 M Tris buffer, pH 8.0, containing 50% glycerol, 1% BSA, 10 mM glycine, 1 mM MgCl₂, with 15 mM sodium azide as preservative.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

Store at 2-8 °C.

Product Profile

Direct ELISA² : 1:30,000

Dot Blot: 1:30,000

Immunohistology³ : 1:50

Western Blot: 1:30,000

Note: In order to obtain best results in different techniques and preparations we recommend determining optimal working concentration by titration.

References

1. Avrameas, V., *Immunochemistry*, **6**, 43 (1969).
2. Voller, A., et al., *Bull. World Health Organ.*, **53**, 55 (1976).
3. Pluzek, K.J. and R. Ramlau, Alkaline Phosphatase Labeled Reagents, in CRC Handbook of Immunoblotting of Proteins, O.J. Bjerrum and N.H.H. Heegaard, Eds., CRC Press Inc., Boca Raton, FL, **1**, p. 177, 1988.

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