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Product Information

Anti-Human IgA (α -chain specific)

Peroxidase Conjugate

Developed in Goat

Affinity Isolated Antigen Specific Antibody

Product No. A 7032

Product Description

Anti-Human IgA (α -chain specific) is developed in goat using purified human IgA as the immunogen. Affinity isolation removes essentially all goat serum proteins, including immunoglobulins that do not specifically bind to the α chain of human IgA. Goat Anti-Human IgA (α -chain specific) is conjugated to Sigma Horseradish Peroxidase, Type VI (Product No. P 8375) by a modification of the periodate method of Wilson and Nakane.¹

Specificity of the Peroxidase Conjugated Anti-Human IgA is determined by Enzyme Linked Immunosorbent Assay (ELISA). The conjugate is specific for human IgA when tested against human IgA, IgG, IgM, Bence Jones kappa and lambda myeloma 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.

Reagent

Anti-Human IgA (α -chain specific) is provided as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 1% BSA with 0.01% thimerosal as a preservative.

Product Profile

Titer: between 1:10,000 and 1:30,000 (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 450 nm after 30 minutes of substrate conversion at 25 °C.²

Microwell plates are coated with purified human IgA at a concentration of 5 μ g/ml in 0.05 M carbonate/bicarbonate buffer, pH 9.6, (Carbonate/Bicarbonate Buffer Capsules are available as Product No. C 3041).

Substrate: o-Phenylenediamine Dihydrochloride (OPD, Product No. P 8287), 0.4 mg/ml in 0.05 M phosphate citrate buffer, pH 5.0 containing 0.03% sodium perborate (Phosphate-Citrate Buffer Capsules with Sodium Perborate are available as Product No. P 4922).

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

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

1. Wilson , M., and Nakane, P., Immunofluorescence and Related Staining Techniques, Elsevier/North Holland Biomedical Press, Amsterdam, p215 (1978).
2. Voller, A., et al., Bulletin WHO, **53**, 55 (1976).

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