



3050 Spruce Street
Saint Louis, Missouri 63103 USA
Telephone (800) 325-5832 (314) 771-5765
Fax (314) 286-7828
email: techserv@sial.com
sigma-aldrich.com

Product Information

ANTI-MONKEY IgG (WHOLE MOLECULE) PEROXIDASE CONJUGATE Affinity Isolated Antigen Specific Antibody

Product No. **A 2054**

Product Description

Antiserum is developed in rabbit using purified monkey IgG (rhesus) as the immunogen. Antibody is isolated from rabbit anti-monkey IgG antiserum by immunospecific purification which removes essentially all rabbit serum proteins, including immunoglobulins, which do not specifically bind to monkey IgG. Rabbit anti-monkey IgG is conjugated to horseradish peroxidase by protein cross linking with glutaraldehyde. Identity and purity of the antibody is established by immunoelectrophoresis (IEP), prior to conjugation. Electrophoresis of the antibody preparation followed by diffusion versus anti-rabbit IgG and anti-rabbit whole serum result in single arcs of precipitation.

Cross-reactivity of the product is determined by immunoelectrophoresis (IEP) and Ouchterlony Double Diffusion (ODD). The antibody shows cross reactivity with baboon and marmoset IgG's.

Reagents

The conjugate is provided as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 0.01% thimerosal as a preservative.

Product Profile

Molar Ratio: (Antibody:Peroxidase): 0.8 to 1.5

Titers

1. Minimum 1:35,000 (Direct ELISA)
We are now reporting lot specific information as a titer by direct ELISA rather than as a working dilution. Microtiter plates are coated with purified monkey 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). 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 (Voller, et al.).

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).

2. Dot Blot

- a. A minimum dilution of 1:8,000 was determined in a direct assay using 40 ng of monkey IgG/dot.
- b. A dilution of 1:160,000 was determined in a direct chemiluminescence assay using 10 ng monkey IgG/dot. Luminol plus enhancer was used as substrate.

Working dilutions should be determined by titration assay. Due to differences in assay systems, these titers 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.

Reference

1. Voller, A., et al., Bulletin WHO, **53**, 55 (1976).

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