3050 Spruce Street, St. Louis, MO 63103 USA
Tel: (800) 521-8956 (314) 771-5765 Fax: (800) 325-5052 (314) 771-5757
email: techservice@sial.com sigma-aldrich.com

Product Information

Anti-Dog IgG (whole molecule)-Alkaline Phosphatase
produced in rabbit, IgG fraction of antiserum

Catalog Number **A0793**

Product Description

Antiserum is produced in rabbit using IgG isolated from pooled normal dog serum as the immunogen. Whole antiserum is fractionated and then further purified by ion exchange chromatography to provide the IgG fraction of antiserum. This fraction is essentially free of other rabbit serum proteins. Rabbit anti-dog IgG is conjugated to alkaline phosphatase using 0.2% glutaraldehyde.

Specificity of the anti-dog IgG antibodies for dog IgG is determined by immunoelectrophoresis and double diffusion assays prior to conjugation using normal dog serum and dog IgG.

Identity and purity of the antibody is established by immunoelectrophoresis (IEP). Electrophoresis of the product followed by diffusion versus the anti-rabbit IgG and the anti-rabbit whole serum results in single arcs of precipitation in the gamma region.

Reagent

Supplied as a solution in 0.05 M Tris buffer, pH 8.0, containing 1% BSA, and 1 mM $MgCl_2$, 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

Store at 2-8 °C. **Do Not Freeze**.

Product Profile

Direct ELISA: minimum 1:6,000
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.[1].

Microtiter plates are coated with purified dog 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 Catalog Number C3041.

Substrate: *p*-Nitrophenyl phosphate (pNPP), Catalog Number N2765, 1.0 mg/ml in 10% diethanolamine buffer, pH 9.8, containing 0.01% $MgCl_2$ and 0.02% NaN_3.

Dot Blot: a minimum dilution of 1:4,000 was determined in a direct chemiluminescence assay using 20 ng dog IgG/dot. Luminol plus enhancer was used as substrate.

Note: Working dilution should be determined by titration assay. Due to product improvement and changes in the assay procedure, we now list a lot specific titer by direct ELISA for this product. Due to differences in assay systems, this titer may not reflect the user's actual working dilution.

Reference

1. Voller, A., et al., Bull. World Health Organ., **53**, 55 (1976).

DS,KAA,PHC 03/13-1