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ProductInformation

Anti-Chicken IgY (IgG) (whole molecule)
Alkaline Phosphatase Conjugate
Developed in Rabbit
Affinity Isolated Antigen Specific Antibody

Product No. **A 9171**

Product Description

Anti-Chicken IgY (IgG) (whole molecule) is developed in rabbit using IgY (IgG) isolated from pooled normal chicken serum as immunogen. Antibody is isolated from rabbit anti-chicken IgY (IgG) antiserum by immunospecific purification to remove essentially all rabbit serum proteins including immunoglobulins, which do not specifically bind to chicken IgY (IgG). Rabbit Anti-Chicken IgY (IgG) is conjugated to Sigma Alkaline Phosphatase using 0.2% glutaraldehyde.

Specificity of the anti-chicken IgY (IgG) antibodies for chicken IgY (IgG) is determined by immunoelectrophoresis (IEP) and double diffusion assays prior to conjugation using normal chicken serum and chicken IgG.

Identity and purity of the antibody is established by immunoelectrophoresis, prior to conjugation. Electrophoresis of the antibody preparation followed by diffusion versus anti-rabbit IgG and anti-rabbit whole serum results in single arcs of precipitation.

Reagent

The conjugate is provided 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

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.

Storage

Store at 2-8 °C. **Do Not Freeze**.

Product Profile

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 chicken 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 405 nm after 30 minutes of substrate conversion at 25 °C.[1]

Substrate: *p*-Nitrophenyl Phosphate (pNPP, Product No. N 2765), 1.0 mg/ml in 10% diethanolamine buffer, pH 9.8, containing 0.01% $MgCl_2$ and 0.02% NaN_3.

2. Dot Blot
   a. A minimum dilution of 1:50,000 is determined in a direct assay using 40 ng chicken IgG/dot.
   b. A minimum dilution of 1:100,000 is determined in an indirect assay using 20 ng human IgG/dot and chicken anti-human IgG as the primary antibody.
   c. In an indirect chemiluminescence system using 20 ng human IgG/dot and chicken anti-human IgG as the primary antibody, this product was determined to have a minimum dilution of 1:160,000 when used as secondary antibody. 1,2-Dioxetane and enhancer was used as substrate.

3. Immunohistology
   A minimum dilution of 1:40 is determined by an indirect assay using formalin-fixed, paraffin-embedded human pancreas and chicken anti-human insulin as the primary antibody.

Reference

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

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