

Product Information

Monoclonal Anti-DNP–Alkaline Phosphatase Conjugate **Clone SPE-7**

produced in mouse, purified immunoglobulin

Catalog Number **A2831**

Product Description

Monoclonal Anti-DNP (dinitrophenyl) (mouse IgE isotype) is derived from the hybridoma¹ produced by the fusion of mouse myeloma cells and splenocytes from an immunized mouse. DNP-KLH was used as the immunogen. Monoclonal Anti-DNP is purified from ascites fluid by affinity chromatography using agarose-DNP-BSA. Purified antibody is then conjugated to alkaline phosphatase using 0.2% glutaraldehyde. The isotype is determined by a double diffusion immunoassay using Mouse Monoclonal Antibody Isotyping Reagents (Catalog Number ISO2).

Specificity of the monoclonal antibody is determined by ELISA and dot immunoblotting.

The antibody is used to induce controlled allergic reactions or as a source of mouse IgE.

Reagent

The conjugate is provided as a liquid in 0.05 M Tris buffer, pH 8.0, containing 1% BSA, 50% glycerol, 1 mM MgCl₂, and 15 mM sodium azide as preservative.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Due to the sodium azide content a material safety sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

Store the antibody at 2–8 °C. Do not freeze. Protect from prolonged exposure to light. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

Direct ELISA: 1:25,000 to 1:35,000

Dot Blot: minimum 1:180,000

- using 50 ng of DNP-BSA/dot with BCIP®/NBT detection. No reactivity is observed with BSA, ensuring minimal reactivity against bovine serum albumin.
- using 20 ng of DNP-BSA/dot with chemiluminescence detection.

Note: In order to obtain the best results using various techniques and preparations, it is recommended each user determine the optimal working dilutions by titration.

References

1. Eshhar, Z., et al., J. Immunol., **124**, 775 (1980).

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