

Product Information

Monoclonal Anti-Digoxin-Biotin

Clone DI-22

produced in mouse, purified immunoglobulin

Catalog Number **B7405**

Product Description

Monoclonal Anti-Digoxin (mouse IgG1 isotype) is derived from the hybridoma produced by the fusion of mouse myeloma cells and splenocytes from an immunized mouse. Digoxin-KLH was used as the immunogen. The isotype is determined by a double diffusion immunoassay using Mouse Monoclonal Antibody Isotyping Reagents, Catalog Number ISO2. The immunoglobulin fraction of the ascites fluid is conjugated to biotin ϵ -amino caproic acid N-hydroxysuccinimide.

Monoclonal Anti-Digoxin-Biotin is specific for digoxin and digoxin-labeled compounds. The DI-22 clone shows strong cross-reactivity with digoxigenin.

The conjugate may be used to detect digoxin-labeled compounds such as oligonucleotides, antibodies or peptides. Labeled compounds and corresponding conjugated antibodies can be used for the detection of viruses and bacterial infections in human diagnostics, oncogenes as tumor markers, histocompatibility antigens in transplantation analytics causative research (e.g., in autoimmune diseases), characterization of lymphoid cell subpopulations (e.g., during treatment of lymphomas), determination of genetic defects or genetic defect predispositions (e.g., Alzheimer's disease), and nucleic acid diagnostics.

Reagent

Supplied as a solution in 0.01 M PBS, pH 7.4, containing 1% BSA and 15 mM sodium azide as a preservative.

Antibody concentration is at least 2 mg/ml

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

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, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use.

Product Profile

ELISA

The working dilution of the conjugate is determined by testing serial dilutions in microtiter plates coated with digoxin-BSA or digoxigenin-transferrin. No reactivity with BSA or transferrin is observed.

A minimum dilution of 1:10,000 of conjugate using ExtrAvidin® Peroxidase, Catalog Number E2886, at 2 μ g/ml gives an absorbance of 1.0 at A_{450} following 30 minutes of enzymatic reaction.

Dot Blot

A dilution of at least 1:500 in a direct assay using 1-2 μ g/dot digoxin-BSA or digoxigenin-transferrin and ExtrAvidin Peroxidase at 1-2 μ g/ml. No reaction is observed versus BSA or transferrin.

ExtrAvidin is a registered trademark of Sigma-Aldrich Biotechnology LP and Sigma-Aldrich Co.

References

1. Kessler, C., *Molecular and Cellular Probes*, **5**, 161 (1991).
2. Kehayov, I., et al., *Hybridoma*, **9**, 493 (1990).

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