

Product Information

Monoclonal Anti-Digoxin-FITC, Clone DI-22

produced in mouse, purified immunoglobulin

Catalog Number **F3523**

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 using a double diffusion immunoassay using Mouse Monoclonal Antibody Isotyping Reagents, Catalog Number ISO2. The immunoglobulin fraction of the ascites fluid is conjugated to fluorescein isothiocyanate (FITC) Isomer I. The conjugate is then purified by gel filtration to remove unbound FITC. No detectable free FITC is present.

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

Monoclonal Anti-Digoxin-FITC 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 in 0.01 M phosphate buffered saline, pH 7.4, containing 1% BSA 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. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

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

Fluorescent Dot Immunobinding Assay (F-DIBA): A minimum dilution of 1:16 of conjugate reacted with 1-10 µg/dot of digoxin-BSA or digoxigenin-transferrin bound to nitrocellulose. No reaction was observed with BSA or transferrin bound to nitrocellulose.

References

1. Kessler, C., *Mol. and Cell. Probes*, **5**, 161 (1991).

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