



Product Information

MONOCLONAL ANTI-DIGOXIN FITC CONJUGATE

Clone DI-22

IgG Fraction of Mouse Ascites Fluid

Product Number **F 3523**

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 Sigma ImmunoType™ Kit (Product Code ISO-1) and by a double diffusion immunoassay using Mouse Monoclonal Antibody Isotyping Reagents (Product Code ISO-2). 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.

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

FITC Conjugated Monoclonal Anti-Digoxin 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.

Reagents

The product is supplied in 0.01 M phosphate buffered saline, pH 7.4, containing 1% BSA and 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/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 is **not** recommended. Storage in "frost-free" freezers is **not** recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use.

Product Profile

1. 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.
2. Particle Immunofluorescent Assay (P-IMFA): A minimum dilution of 1:16 of conjugate bound to a 50 µl suspension of digoxigenin-transferrin bound to agarose (approximately 100 µg digoxigenin-transferrin/ml agarose).

References

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

JWM/KMR 04/02

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