

Digoxin Monoclonal Antibody (25P1C9)

Catalog Number MID0301

Product data sheet

Details		Species Reactivity	
Size	1 mg	Species reactivity	Chemical
Host/Isotope	Mouse / IgG1	Tested Applications	
Class	Monoclonal	ELISA (ELISA)	Assay-dependent
Type	Antibody	Immunoprecipitation (IP)	Assay-dependent
Clone	25P1C9	Radioimmune Assays (RIA)	Assay-dependent
Immunogen	Digoxin-BSA	Western Blot (WB)	1 µg/mL
Conjugate	Unconjugated	<div>* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.</div>	
Form	Liquid		
Concentration	5.78 mg/mL		
Purification	Protein A		
Storage buffer	0.015M potassium phosphate, pH 7.2, with 0.15M NaCl		
Contains	0.1% sodium azide		
Storage Conditions	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C		

Product specific information

MID0301 targets Digoxin in Western Blot, ELISA, IP and RIA applications and shows reactivity with labeled oligonucleotides and chemical samples. MID0301 was formerly sold as a Seradyn product.

Background/Target Information

Digoxin is a beta blocker drug used to treat heart problems, such as heart failure, high blood pressure.

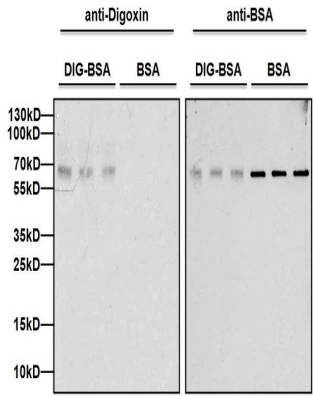
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Product Images For Digoxin Monoclonal Antibody (25P1C9)

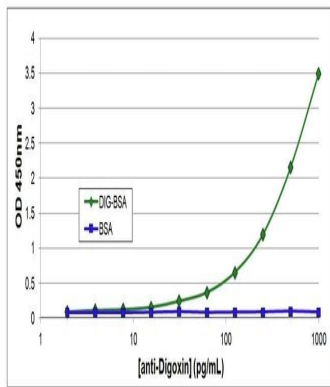
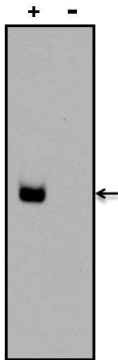


Digoxin Antibody (MID0301) in WB

Western blot analysis of Digoxin was performed by loading 10 ng of BSA (Product # 23209) or Digoxin-labeled BSA per well and 5 μ L of PageRuler Plus Prestained Protein Ladder (Product # 26619) onto a 4-20% Tris-Glycine polyacrylamide gel. Proteins were transferred to a nitrocellulose membrane using the G2 Blotter (Product # 62288), and blocked with 5% milk in TBST for 1 hour at room temperature. BSA was detected at ~66 kD using a BSA monoclonal antibody (Product # MA5-15238) at a dilution of 1 μ g/mL in 5% milk in TBST overnight at 4C on a rocking platform. Digoxin-labeled BSA was detected at ~66 kD using a Digoxin monoclonal antibody (Product # MID0301) at a dilution of 1 μ g/mL in 5% milk in TBST overnight at 4C on a rocking platform. After washing, blots were probed with a goat anti-mouse IgG-HRP secondary antibody (Product # 31430) at a dilution of 1:10,000 for at least 30 minutes at room temperature. Chemiluminescent detection was performed using SuperSignal West Pico substrate (Product # 34080).

Digoxin Antibody (MID0301) in WB

Chemiluminescent detection of a Digoxin-labeled oligonucleotide was performed by diluting a Digoxin-labeled DNA oligonucleotide (+) or an unlabeled oligonucleotide control (-) in TriTracker Loading Dye (Product # R1161), and loading 5pmols onto a 6% DNA Retardation Gel (Product # EC63652BOX). DNA was transferred to a Biotin B membrane (Product # 77016) and blocked for 30 minutes at room temperature. Digoxin was detected using a Digoxin monoclonal antibody (Product # MID0301) at a dilution of 1 μ g/mL for 30 minutes at room temperature, followed by a goat anti-mouse IgG-HRP secondary antibody (Product # 31430) at a dilution of 1:10,000 for at least 30 minutes at room temperature. Detection was performed using the Chemiluminescent Nucleic Acid Detection Module Kit (Product # 89880).



Digoxin Antibody (MID0301) in ELISA

Indirect ELISA analysis of Digoxin was performed by preparing a 10 μ g/mL solution of BSA (Product # 23209) or Digoxin-labeled BSA in 0.2M Carbonate-Bicarbonate, pH 9.4 (Product # 28382). 100uL of each solution was added to separate wells of a clear 96-well plate (Product # 15041), and incubated overnight at 4C. Each well was blocked with SuperBlock in PBS (Product # 37515). The plate was then washed with PBST and incubated with 100uL per well of Digoxin monoclonal antibody (Product # MID0301) in triplicate at ~1000 - 2pg/mL for 1 hour at room temperature. The plate was washed with PBST and incubated with 100 μ L per well of goat anti-mouse IgG-HRP secondary antibody (Product # 31430) in all test wells at 1:25,000 for 30 minutes at room temperature. Detection was performed using 1-Step TMB Ultra substrate (Product # 34028) for 15 minutes at room temperature. The plate was then stopped with 0.2 M sulfuric acid. Absorbances were read on a spectrophotometer at 450-550 nm.

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