

#D30000

# Digoxin[1B9] Mouse mAb



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- 50  $\mu$ l
- 100  $\mu$ l
- 200  $\mu$ l

## DESCRIPTION

Digoxin is a cardiac glycoside that decreases the conduction of electrical impulses through the AV node in the heart. It also increases the force of heart contractions by binding to and inhibiting the Na<sup>+</sup>/K<sup>+</sup> ATPase pump, which causes an increase in the level of sodium ions in the myocytes, thereby leading to a rise in the level of calcium ions. Digoxin is expressed in the foxglove plant digitalis and is then extracted for clinical use to improve the pumping ability of the heart in congestive heart failure (CHF) and to treat patients with high blood pressure. It is also used to help normalize some dysrhythmias (abnormal types of heartbeat) and to stabilize atrial fibrillation and atrial flutter with rapid ventricular response.

## SOURCE

This Abmart monoclonal antibody is produced by immunizing mice with a Digoxin conjugated to KLH.

## STORAGE

Stored at -20°C or below until use. Avoid repeated freezing and thawing cycles.

## REACTIVITY

Chemical

## HOST / ISOTYPE

Mouse / IgG1

## FORMAT

Purified : IgG / Liquid

Purification : Affinity chromatography on Protein G

Buffer system : 10 mM HEPES , 75 mM NaCl , pH 7.5, containing 0.05% Procline 300

## DETECTION RANGE

1-10ng/ml

## SENSITIVITY

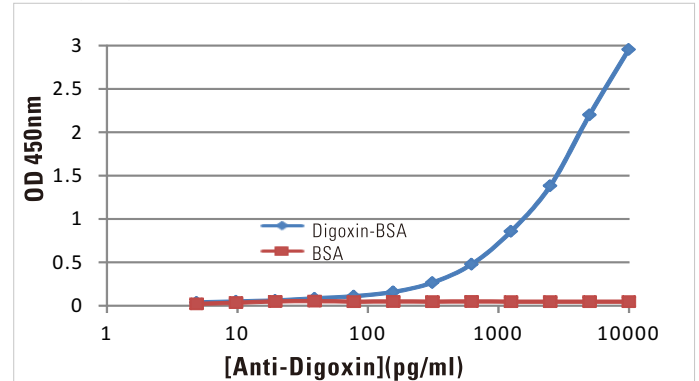
IC<sub>50</sub>=3.4ng/ml

## COMPANION PRODUCTS

- #D30001 Digoxin[2N7] Mouse mAb
- #D30002 Digoxin[3D14] Mouse mAb
- #D30003 Digoxin[2N7] mAb (HRP Conjugated)
- #D30004 Digoxin[3D14] mAb (HRP Conjugated)
- #D30005 Digoxin[1B9] mAb (HRP Conjugated)

**Reactivity Key:** H—human, M—mouse, R—rat, ChHm—Chinese hamster, Mk—monkey, C—chicken, Dm—D.melanogaster, X—xenopus, Z—zebrafish, B—bovine, Dg—dog, Pg—pig, Sc—S.cerevisiae, Ce—C.elegans, Hr—horse

## APPLICATION DATA



### Cross reactivity test by indirect ELISA analysis

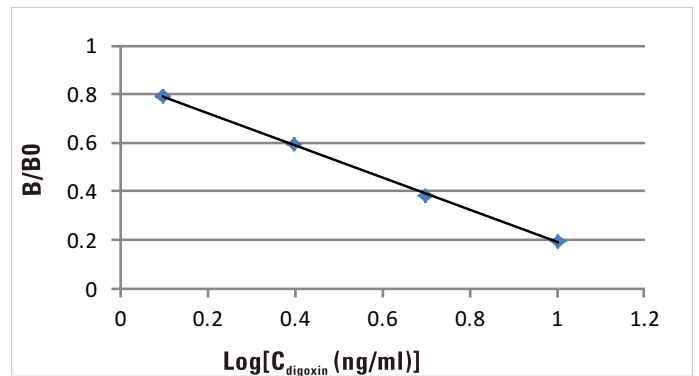
**Coating:** BSA (red) and Digoxin-BSA (blue) at 1  $\mu$ g/ml by Carbonate-Bicarbonate

**Incubation:** Anti-Digoxin antibody at 10000--2.5 pg/ml dilution

### Secondary

Goat Anti-Mouse IgG-HRP at 1/10000 dilution

Blocking/Dilution buffer: 5% milk/PBST



### The Standard Curve of digoxin with Digoxin antibody

**Coating:** Digoxin-BSA (blue) at 50 ng/ml by Carbonate-Bicarbonate

**Incubation:** Digoxin at 10--0.3125 ng/ml dilution

Primary antibody: 1:2000

### Secondary

Goat Anti-Mouse IgG-HRP at 1/10000 dilution

Blocking/Dilution buffer: 5% milk/PBST