

# Product Datasheet

## Digoxin Antibody (38G12) NBP1-78618

Unit Size: 100ug

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP1-78618**

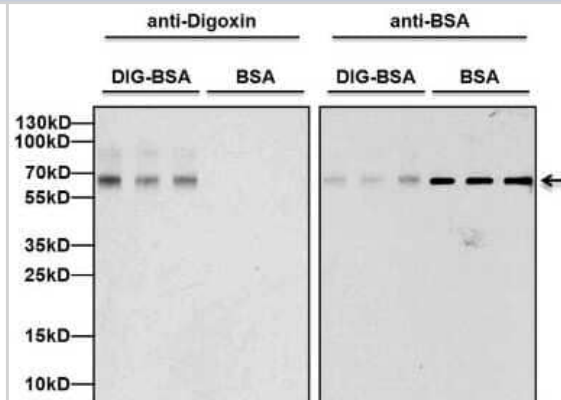
Digoxin Antibody (38G12)

Product Information	
Unit Size	100ug
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	38G12
Preservative	0.05% Sodium Azide
Isotype	IgG2a
Purity	Ion exchange chromatography
Buffer	0.01M potassium phosphate with 0.135M NaCl, 1mg/ml BSA, 2.5mM KCl
Product Description	
Host	Mouse
Species	Non-species specific
Reactivity Notes	Chemical
Immunogen	Digoxin-BSA
Product Application Details	
Applications	Western Blot, Chemiluminescence Immunoassay, ELISA, Immunoprecipitation, Radioimmunoassay
Recommended Dilutions	Western Blot 1 ug/ml, ELISA 1:100 - 1:2000, Immunoprecipitation 1:10 - 1:500, Radioimmunoassay 1:100 - 1:2000, Chemiluminescence Immunoassay

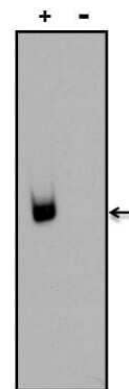


## Images

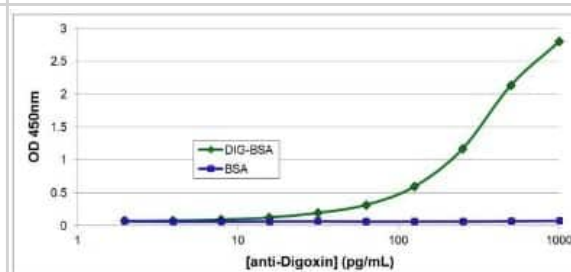
**Western Blot: Digoxin Antibody (38G12) [NBP1-78618] - Analysis of Digoxin** was performed by loading 10ng of BSA or Digoxin-labeled BSA per well and 5ul of PageRuler Plus Prestained Protein Ladder onto a 4-20% Tris-Glycine polyacrylamide gel. Proteins were transferred to a nitrocellulose membrane using the G2 Blotter, and blocked with 5% milk in TBST for 1 hour at room temperature. BSA was detected at ~66kD using a BSA monoclonal antibody at a dilution of 1ug/ml in 5% milk in TBST overnight at 4C on a rocking platform. Digoxin-labeled BSA was detected at ~66kD using a Digoxin monoclonal antibody at a dilution of 1ug/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 at a dilution of 1:10,000 for at least 30 minutes at room temperature. Chemiluminescent detection was performed using SuperSignal West Pico substrate.



**Chemiluminescence Immunoassay: Digoxin Antibody (38G12) [NBP1-78618] - 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, and loading 5pmols onto a 6% DNA Retardation Gel. DNA was transferred to a Biotodyne B membrane and blocked for 30 minutes at room temperature. Digoxin was detected using a Digoxin monoclonal antibody at a dilution of 1ug/ml for 30 minutes at room temperature, followed by a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10,000 for at least 30 minutes at room temperature. Chemiluminescent detection was performed using the Chemiluminescent Nucleic Acid Chemiluminescent detection Module Kit.



**ELISA: Digoxin Antibody (38G12) [NBP1-78618] - InDirect ELISA** analysis of Digoxin was performed by preparing a 10ug/mL solution of BSA or Digoxin-labeled BSA in 0.2M Carbonate-Bicarbonate, pH 9.4. 100uL of each solution was added to separate wells of a clear 96-well plate, and incubated overnight at 4C. Each well was blocked with SuperBlock in PBS. The plate was then washed with PBST and incubated with 100uL per well of Digoxin monoclonal antibody in triplicate at ~1000 – 2pg/mL for 1 hour at room temperature. The plate was washed with PBST and incubated with 100ul per well of goat anti-mouse IgG-HRP secondary antibody in all test wells at 1:25,000 for 30 minutes at room temperature. Detection was performed using 1-Step TMB Ultra substrate for 15 minutes at room temperature. The plate was then stopped with 0.2M sulfuric acid. Absorbances were read on a spectrophotometer at 450-550nm.





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP1-78618**

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96778	Mouse IgG2a Isotype Control (M2A)

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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