

YR0506

Leader in Biomolecular Solutions for Life Science



# Rabbit Anti-DNP Monoclonal Antibody, clone 1B1

Catalog No.: YR0506

## Basic Information

### Molecular Weight

150 kDa

### Endotoxin

<1EU/mg (<0.001EU/μg) Determined by LAL gel clotting assay

### Sterility

0.2 μm filtration

### Aggregation

<5% Determined by SECP

### Purity

>95% Determined by SEC-HPLC

## Background

DNP (2,4-dinitrophenol) is a small molecular compound with a molecular weight of 184.11, which is mainly used in organic synthesis and as dye intermediate. DNP is not produced in human metabolism and does not produce non-specific reactions with interfering substances in the sample, such as heterophil antibodies, human anti-animal antibodies, etc. This product is a monoclonal antibody obtained after immunizing rabbit with DNP-BSA. Our antibodies with Advanced Verification data have been validated for specificity to ensure that the antibody binds to the antigen stated. The DNP molecule crosslinked with BSA can be used as an independent quality control system in immunochromatography, which can significantly improve C-line specificity.

## Reported Applications

ELISA

## Immunogen Information

### Clone

1B1

### Isotype

Rabbit IgG1

### Immunogen

DNP

### Recommended Isotype Control(s)

### Recommended Dilution Buffer

1×PBS pH 7.3

## Contact



[www.abclonal.com](http://www.abclonal.com)

## Product Information

### Production

Purified from cell culture supernatant in an animal-free facility

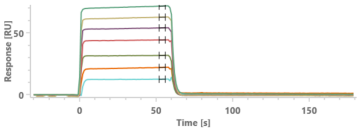
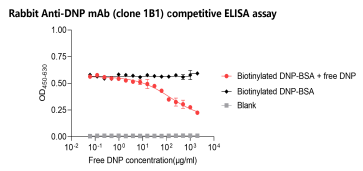
### Purification

Protein A/G

### Storage

Store at 2 - 8°C. 2 - 8°C for up to 4 weeks and -80°C for long term storage (Avoid repeated freezing and thawing)

# Validation Data



A microtiter plate was coated overnight with Rabbit Anti-DNP Monoclonal Antibody (clone 1B1) at a concentration of 2 µg/mL. After washing and blocking with PBST + 5% skim milk. Free DNP starting at 2000 µg/mL (final concentration) serial dilution, and premixed with Biotinylated DNP-BSA (final concentration 15ng/mL), No free DNP added sample is used as control. Horseradish Peroxidase conjugated NeutrAvidin was used for final detection.

Rabbit Anti-DNP Monoclonal Antibody (clone 1B1) captured on CM5 Chip can bind Free DNP with an affinity constant of 2.64 µM as determined in SPR assay.