

# Monoclonal Anti-PNU-159682 Antibody, Rabbit IgG (P1D10)

Catalog # PNU-MY2370



## Specificity

Specifically recognizes PNU.

## Source

Monoclonal Anti-PNU-159682 Antibody, Rabbit IgG (P1D10) is a Rabbit monoclonal antibody recombinantly expressed from HEK293 cells.

## Clone

P1D10

## Isotype

Rabbit IgG | Rabbit Kappa

## Conjugate

Unconjugated

## Immunogen

PNU-BSA

## Application

Application	Recommended Usage
ELISA	0.2-156 ng/mL

## Purification

Protein A purified / Protein G purified

## Formulation

Lyophilized from a 0.22 µm-filtered solution in PBS (pH 7.4), with trehalose as protectant.

Please contact us for customized product forms or formulations.

## Reconstitution

Please refer to the Certificate of Analysis (CoA) for specific instructions.

**For best performance, we strongly recommend following the reconstitution protocol provided in the CoA.**

## Storage

For long term storage, the product should be stored in a lyophilized state at -20°C or lower.

**Please avoid repeated freeze-thaw cycles.**

This product is stable after storage at:

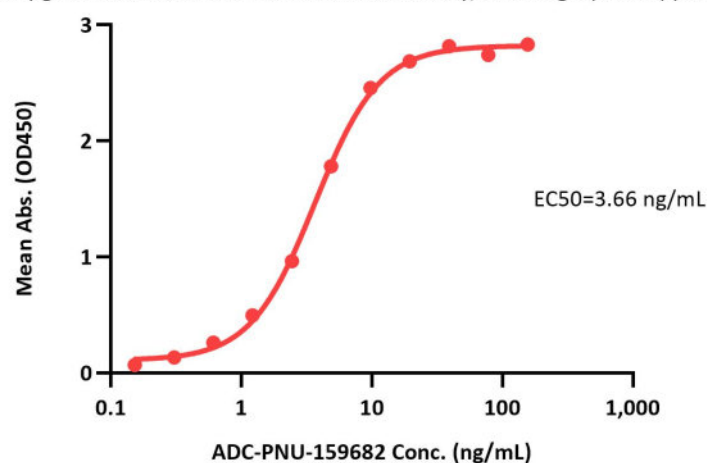
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## ACRO Quality Management System

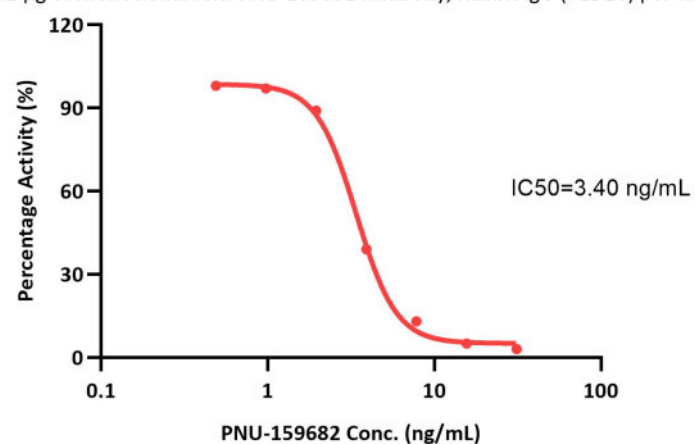
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

## Bioactivity-ELISA

**Monoclonal Anti-PNU-159682 Antibody, Rabbit IgG (P1D10) ELISA**  
0.1 µg of Monoclonal Anti-PNU-159682 Antibody, Rabbit IgG (P1D10) per well



**Inhibition of Monoclonal Anti-PNU-159682 Antibody, Rabbit IgG (P1D10) ELISA**  
0.1 µg of Monoclonal Anti-PNU-159682 Antibody, Rabbit IgG (P1D10) per well

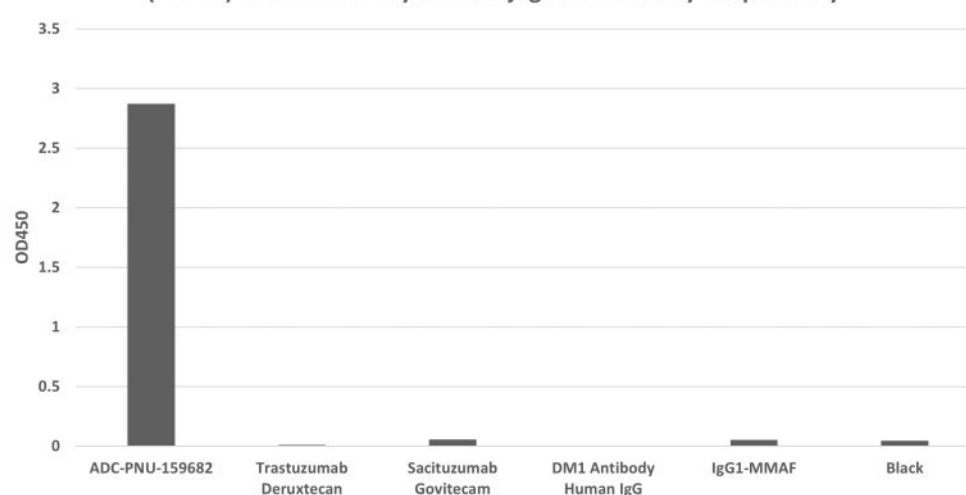


Immobilized Monoclonal Anti-PNU-159682 Antibody, Rabbit IgG (P1D10) (Cat. No. PNU-MY2370) at 1 µg/mL (100 µL/well) can bind ADC-PNU-159682 with a linear range of 0.2-10 ng/mL (QC tested).

Serial dilutions of PNU-159682 were added into Monoclonal Anti-PNU-159682 Antibody, Rabbit IgG (P1D10) (Cat. No. PNU-MY2370): Human IgG1 Kappa Isotype Control (mAb) (Cat. No. DNP-M2) binding reactions. The half maximal inhibitory concentration (IC50) is 3.45 ng/mL (Routinely tested).

## Cross Verification

**ELISA binding of Monoclonal Anti-PNU-159682 Antibody, Rabbit IgG (P1D10) to Different Payload Conjugated Antibody Respectively**



ELISA binding of Monoclonal Anti-PNU-159682 Antibody, Rabbit IgG (P1D10) (Cat. No. PNU-MY2370) with ADC-PNU-159682, Trastuzumab Deruxtecan, Sacituzumab Govitecam, DM1 Antibody Human IgG and IgG1-MMAF conjugated antibody respectively.

The coating antibody was Monoclonal Anti-PNU-159682 Antibody, Rabbit IgG (P1D10) (Cat. No. PNU-MY2370), used at 1 µg/mL concentration. The primary antibody were different payload conjugated antibodies, including ADC-PNU-159682, Trastuzumab Deruxtecan, Sacituzumab Govitecam, DM1 Antibody Human IgG and IgG1-MMAF conjugated antibodies used at 0.5 µg/mL concentration. The secondary antibody was HRP conjugated Anti-Human-IgG-Fc Antibody (6F11C8), mAb (Acro, Cat. No. IGG-LY69) used at 1:10000 concentration.

Monoclonal Anti-PNU-159682 Antibody, Rabbit IgG (P1D10) (Cat. No. PNU-MY2370) is specific to ADC-PNU-159682, and has no cross-reactivity with Trastuzumab Deruxtecan, Sacituzumab Govitecam, DM1 Antibody Human IgG and IgG1-MMAF (Routinely tested).

## Background

PNU-159682 is a topoisomerase II inhibitor serving as a payload for antibody-drug conjugates (ADCs). Its mechanism of action involves stabilizing the complex formed by topoisomerase II and DNA, blocking DNA repair and replication processes, and thereby inducing cancer cell apoptosis. Some ADCs containing PNU-159682 have entered the preclinical research stage, showing targeted killing activity in solid tumor models, with particularly significant effects on tumors with high topoisomerase II expression.



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