

# THE™ ADP Antibody, mAb, Mouse

Cat. No.: A01799

## Overview

### Specificity

The specificity of the antibody is defined as the ratio of antigen concentration to cross-reactant concentration at 50% inhibition of maximum binding (EC50). The cross-reactivity data obtained in a competitive ELISA system is as follows:

Compound	Cross reactivity with ADP%
ADP	100
GDP	53.33
ATP	7.11
GTP	4.37
cAMP	0.47
CTP	0.03
cGMP	0.01
GMP	0.0085
cIMP	0.005
AMP	< 0.0001
UMP	< 0.0001
cTMP	< 0.0001

### Host Species

Mouse

### Immunogen

ADP conjugated to KLH

### Conjugate

Unconjugated

## Applications

Working concentrations for specific applications should be determined by the investigators. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

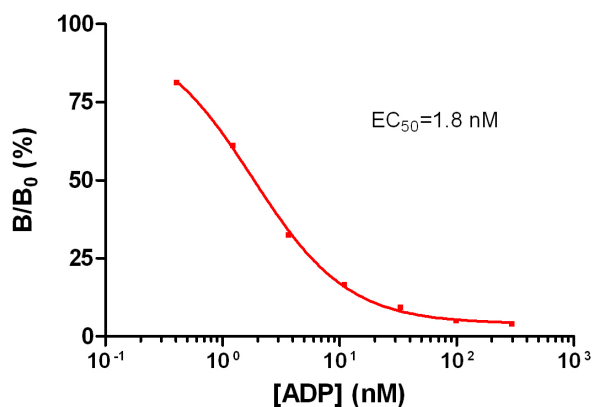
Application	Recommended Usage
Competitive ELISA	0.001-0.01 µg/ml

## Properties

<b>Form</b>	Lyophilized
<b>Storage Buffer</b>	lyophilized with PBS, pH 7.4, containing 0.02% sodium azide.
<b>Reconstitution</b>	Reconstitute the lyophilized powder with deionized water (or equivalent) to an final concentration of 0.5 mg/mL.
<b>Storage Instructions</b>	The lyophilized product remains stable up to 1 year at -20 °C from date of receipt. Upon reconstitution, it can be stored for 2-3 weeks at 2-8 °C or for up to 12 months at -20 °C or below. Avoid repeated freezing and thawing cycles.
<b>Purification</b>	Protein A affinity column
<b>Isotype</b>	Mouse IgG1, $\kappa$
<b>Clonality</b>	Monoclonal
<b>Clone ID</b>	9B2B9
<b>Note</b>	GenScript can customize this product per customer's request including product size, buffer components, etc

## Examples

**Standard Curve**



Competitive ELISA of ADP standard curve using **THE™ ADP Antibody, mAb, Mouse** (GenScript, A01799)

## Background

**Target Background :** Adenosine diphosphate (ADP) is the product of adenosine triphosphate (ATP) dephosphorylation by ATPases. It is an important intermediate in cellular metabolism as the partially dephosphorylated form of ATP. ADP is 5'-adenylic acid with an additional phosphate group attached through a pyrophosphate bond. Its molecular formula is  $C_{10}H_{15}N_5O_{10}P_2$  with the molecular weight of 427.201 g/mol. ADP immunoassay is a useful method for screening the activity of kinases and other ATPases. An ADP antibody is a key reagent for ADP immunoassays such as ELISA and TR-FRET. GenScript THE™ ADP Antibody, mAb, Mouse is produced from the hybridoma resulting from the fusion of SP2/0-Ag14 myeloma and B-lymphocytes harvested from mouse immunized with ADP conjugated to KLH.

**Synonyms :** ADP Antibody, mAb, Mouse

**For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.**