

ADP Antibody, pAb, Rabbit**Cat. No.:** A01316-40**Size:** 40 µl**Synonyms:** Rabbit Anti-ADP pAb;**Description:**

Adenosine diphosphate, abbreviated ADP, is the product of adenosine triphosphate (ATP) dephosphorylation by ATPases. As a coenzyme, ADP is an important intermediate in cellular metabolism as the partially dephosphorylated form of ATP. The compound is 5-adenylic acid with an additional phosphate group attached through a pyrophosphate bond. ADP is produced from ATP and can be reconverted to ATP in coupled reactions concerned with the energy metabolism of living systems. ADP is also produced from 5-adenylic acid by the transfer of a phosphate group from adenosine triphosphate in a reaction that is catalyzed by an enzyme, myokinase.

GenScript **Rabbit Anti-ADP Polyclonal Antibody** is developed in rabbit using ADP-6-KLH as the immunogen. The antibody can be used to develop assays for kinase and ATPase activity assessment.

Immunogen: ADP-6-KLH**Host:** Rabbit**Conjugation:** Unconjugated**Formulation:**

GenScript Rabbit Anti-ADP Polyclonal Antibody is lyophilized from 40 µl or 200 µl of antiserum with 0.02% of sodium azide as preservative before lyophilization.

Ig Subclass: Rabbit IgG

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

Compound	% Cross-reactivity
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ADP	100
GDP	<0.0787
AMP	<0.0001
GMP	<0.0001
ATP	<2.7200
GTP	<0.0030
cAMP	<0.0001
cGMP	<0.0001

Appearance: Lyophilized form**Purification:** Antiserum**Applications:**

Working concentrations for specific applications should be determined by the investigator. 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.

ELISA: 1:5,000-1:30,000**Reconstitution:**

Reconstitute the lyophilized powder with deionized water (or equivalent) to a final volume of 40 µl or 200 µl.

Storage:

The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.