

Datasheet for ABIN3043472  
**anti-CDK2 antibody (AA 81-298)**

4 Images

12 Publications

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## Overview

Quantity:	100 µg
Target:	CDK2
Binding Specificity:	AA 81-298
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CDK2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Cyclin-dependent kinase 2(CDK2) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	E.coli-derived human Cdk2 recombinant protein (Position: E81-L298). Human Cdk2 shares 98.6% amino acid (aa) sequence identity with rat Cdk2.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Cyclin-dependent kinase 2(CDK2) detection. Tested with WB, IHC-P in Human,Mouse,Rat.  Gene Name: cyclin-dependent kinase 2 Protein Name: Cyclin-dependent kinase 2
Purification:	Immunogen affinity purified.

## Target Details

Target:	CDK2
Alternative Name:	CDK2 ( <a href="#">CDK2 Products</a> )
Background:	<p>CDK2, Cyclin-Dependent Kinase2, is also known as P33. The CDK2 protein was highly homologous to p34(CDC2) kinase and more significantly homologous to Xenopus Eg1 kinase, suggesting that CDK2 is the human homolog of Eg1. The CDK2 gene is mapped to 12q13, the same region to which the CDK4 gene maps. Human cyclin A binds independently to 2 kinases, p34(cdc2) or p33. In adenovirus-transformed cells, the viral E1A oncoprotein seems to associate with p33/cyclin A but not with p34(cdc2)/cyclin A. The gene for p33 shares 65 % sequence identity with p34(cdc2). P33(cdk2) plays a unique role in cell cycle regulation of vertebrate cells.</p> <p>Synonyms: Cdc2 related protein kinase antibody cdc2-related protein kinase antibody Cdk 2 antibody  CDK2 antibody CDK2_HUMAN antibody Cell division kinase 2 antibody Cell division kinase 2 antibody Cell division protein kinase 2 antibody Cyclin dependent kinase 2 antibody cyclin dependent kinase 2-alpha antibody Cyclin-dependent kinase 2 antibody p33 protein kinase antibody p33(CDK2) antibody</p>
Gene ID:	1017
UniProt:	<a href="#">P24941</a>
Pathways:	<a href="#">PI3K-Akt Signaling</a> , <a href="#">Cell Division Cycle</a> , <a href="#">Mitotic G1-G1/S Phases</a> , <a href="#">DNA Replication</a> , <a href="#">M Phase</a> , <a href="#">Synthesis of DNA</a>

## Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat</p> <p>IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.</p> <p>Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

## Handling

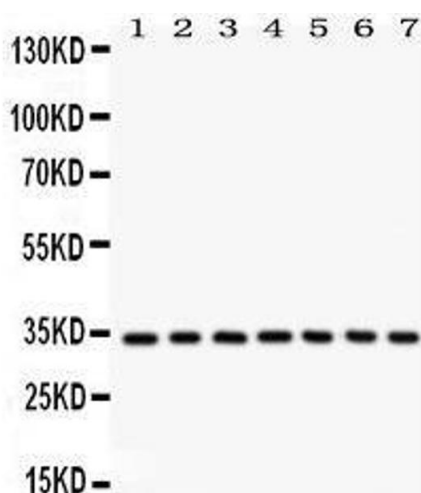
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

## Publications

Product cited in: Li, Zhao, Qi, Wang, Zhang, Li, Qin: "lncRNA Ftx promotes aerobic glycolysis and tumor progression through the PPAR $\gamma$  pathway in hepatocellular carcinoma." in: **International journal of oncology**, Vol. 53, Issue 2, pp. 551-566, (2018) ([PubMed](#)).

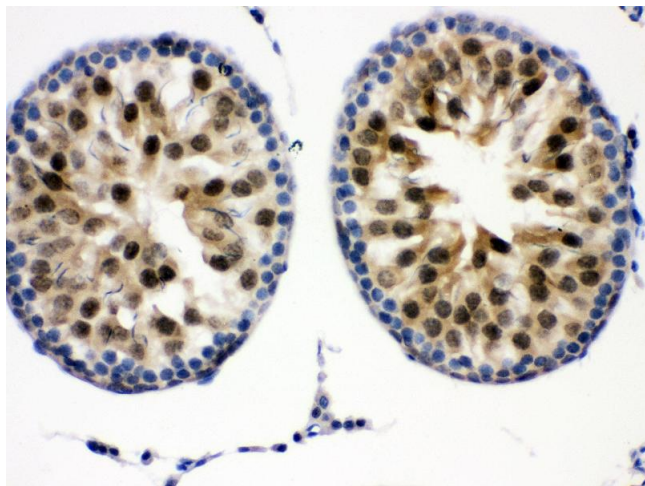
There are more publications referencing this product on: [Product page](#)

## Images



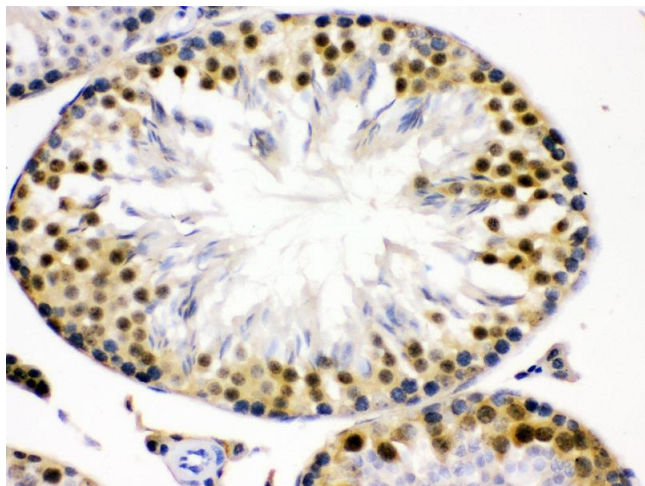
**Western Blotting**

Image 1.



#### Immunohistochemistry

**Image 2.** Anti- Cdk2 Picoband antibody,IHC(P) IHC(P):  
Mouse Testis Tissue



#### Immunohistochemistry

**Image 3.** Anti- Cdk2 Picoband antibody,IHC(P) IHC(P): Rat  
Testis Tissue

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3043472.