DATASHEET

CDK2 Rabbit Polyclonal Antibody

CAT. NO. APA19574

KEY FEATURES

Target	CDK2	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat, Bovine, Chicken, Pig, Rabbit, Sheep, Zebrafish	Clonality	Polyclonal
Applications	WB,IHC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at -20°C

BACKGROUND

CDK2 (cyclin-dependent kinase 2) is a serine/threonine protein kinase that controls cell cycle progression. Activated by cyclin E at the G1-S transition and by cyclin A during S phase, CDK2 phosphorylates substrates such as RB1 to promote the E2F transcriptional program and the initiation of DNA synthesis, and it also modulates G2 progression. CDK2 activity is regulated by activating phosphorylation at Thr-160 via the CDK-activating kinase and by inhibition through CDK inhibitors such as p21 and p27.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:100 - 1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

OVERVIEW

Specificity	Recognizes endogenous levels of CDK2 protein.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CDK2. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 33 kD; Observed: 33 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	CDKN2; Cyclin-dependent kinase 2; Cell division protein kinase 2; p33 protein kinase
Gene Symbol	CDK2
Entrez Gene	1017(Human); 12566(Mouse)
SwissProt	P24941(Human); P97377(Mouse); Q63699(Rat)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

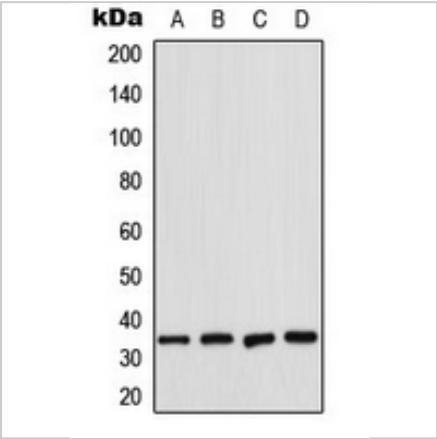
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

DATASHEET

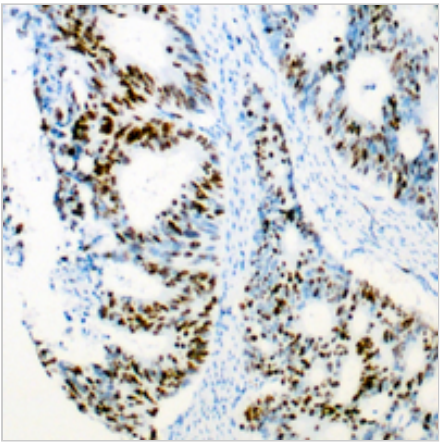
CDK2 Rabbit Polyclonal Antibody

CAT. NO. APA19574

DATA



Western blot analysis of CDK2 expression in K562 (A), HeLa (B), NIH3T3 (C), rat heart (D) whole cell lysates. (Predicted band size: 33 kD; Observed band size: 33 kD)



Immunohistochemical analysis of CDK2 staining in human colon cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

STORAGE

Shipped at 4°C. Upon delivery aliquot and store at -20°C for one year. Avoid freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: www.arexbio.com