Datasheet for ABIN1881192

anti-CDK2 antibody (AA 1-30)

2 Images | 5 Publications

Go to Product page

Overview

Quantity:	400 µL
Target:	CDK2
Binding Specificity:	AA 1-30
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CDK2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This CDK2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from human CDK2.
Clone:	RB7918
Isotype:	Ig Fraction
Predicted Reactivity:	B, Ha, M, Rat, X
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	CDK2
Alternative Name:	CDK2 (CDK2 Products)

Target Details

Background:	CDK2 is a member of the Ser/Thr protein kinase family. This protein kinase is highly similar to the gene products of S. cerevisiae cdc28, and S. pombe cdc2. It is a catalytic subunit of the cyclin-dependent protein kinase complex, whose activity is restricted to the G1-S phase, and essential for cell cycle G1/S phase transition. This protein associates with and is regulated by the regulatory subunits of the complex including cyclin A or E, CDK inhibitor p21Cip1 (CDKN1A) and p27Kip1 (CDKN1B). Its activity is also regulated by its protein phosphorylation.
Molecular Weight:	33930
NCBI Accession:	NP_001789, NP_439892
UniProt:	P24941
Pathways:	PI3K-Akt Signaling, Cell Division Cycle, Mitotic G1-G1/S Phases, DNA Replication, M Phase, Synthesis of DNA

Application Details

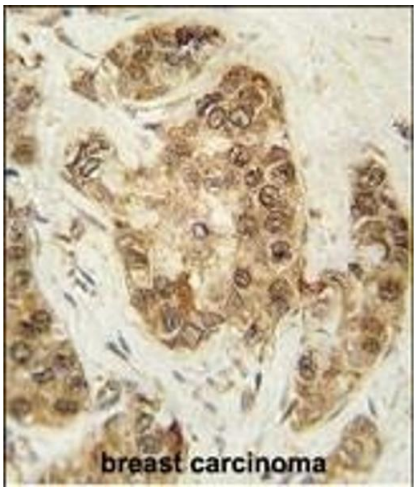
Application Notes:	WB: 1:1000. IHC-P: 1:10~50
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) 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.
Storage:	4 °C,-20 °C
Expiry Date:	6 months

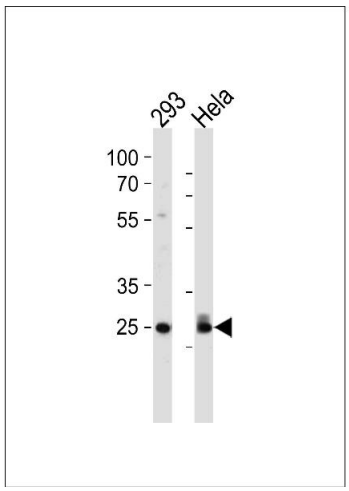
Publications

Product cited in:	Maeda, Inoguchi, Takei, Sawada, Sasaki, Fujii, Kobayashi, Urata, Nishiyama, Takayanagi: " Inhibition of chymase protects against diabetes-induced oxidative stress and renal dysfunction in hamsters." in: **American journal of physiology. Renal physiology**, Vol. 299, Issue 6, pp. F1328-38, (2010) (PubMed).



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with CDK2 Antibody (T14) (ABIN1881192 and ABIN2841623) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.



Western Blotting

Image 2. Cdk2 Antibody (T14) (ABIN1881192 and ABIN2841623) western blot analysis in 293,Hela cell line lysates (35 µg/lane).This demonstrates the hCdk2 antibody detected the hCdk2 protein (arrow).