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Datasheet for ABIN6138520 anti-CHEK2 antibody (AA 1-220)

5 Images



Overview

Quantity:	100 μL
Target:	CHEK2
Binding Specificity:	AA 1-220
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CHEK2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP)
Product Details	
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-220 of human Chk2 (NP_009125.1).
Sequence:	MSRESDVEAQ QSHGSSACSQ PHGSVTQSQG SSSQSQGISS SSTSTMPNSS QSSHSSSGTL

SSLETVSTQE LYSIPEDQEP EDQEPEEPTP APWARLWALQ DGFANLECVN DNYWFGRDKS CEYCFDEPLL KRTDKYRTYS KKHFRIFREV GPKNSYIAYI EDHSGNGTFV NTELVGKGKR

RPLNNNSEIA LSLSRNKVFV FFDLTVDDQS VYPKALRDEY

Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

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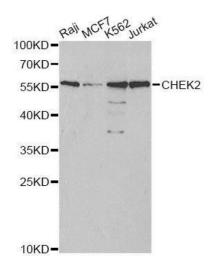
Target Details	
Target:	CHEK2
Alternative Name:	CHEK2 (CHEK2 Products)
Background:	In response to DNA damage and replication blocks, cell cycle progression is halted through the control of critical cell cycle regulators. The protein encoded by this gene is a cell cycle checkpoint regulator and putative tumor suppressor. It contains a forkhead-associated protein interaction domain essential for activation in response to DNA damage and is rapidly phosphorylated in response to replication blocks and DNA damage. When activated, the encoded protein is known to inhibit CDC25C phosphatase, preventing entry into mitosis, and has been shown to stabilize the tumor suppressor protein p53, leading to cell cycle arrest in G1. In addition, this protein interacts with and phosphorylates BRCA1, allowing BRCA1 to restore survival after DNA damage. Mutations in this gene have been linked with Li-Fraumeni syndrome, a highly penetrant familial cancer phenotype usually associated with inherited mutations in TP53. Also, mutations in this gene are thought to confer a predisposition to sarcomas, breast cancer, and brain tumors. This nuclear protein is a member of the CDS1 subfamily of serine/threonine protein kinases. Several transcript variants encoding different isoforms have been found for this gene.,CDS1,CHK2,HuCds1,LFS2,PP1425,RAD53,hCds1,CHEK2,Chk2,Epigenetics & Nuclear Signaling,DNA Damage & Repair,Cancer,Signal Transduction,Kinase,Serine/threonine kinases,Cell Biology & Developmental Biology,Apoptosis,Cell Cycle,G1/S Checkpoint,G2/M DNA Damage Checkpoint,CHEK2
Molecular Weight:	15-38 kDa/50-65 kDa
Gene ID:	11200
UniProt:	096017
Pathways:	p53 Signaling, Apoptosis, Cell Division Cycle
Application Details	
Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:200,IP,1:20 - 1:50
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

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Handling

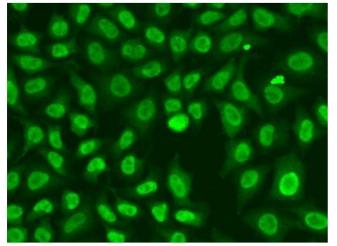
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



Western Blotting

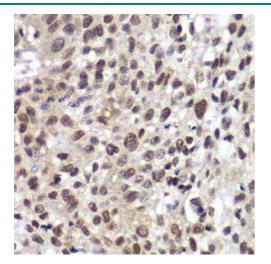
Image 1. Western blot analysis of extracts of various cell lines, using CHEK2 antibody.



Immunofluorescence

Image 2. Immunofluorescence analysis of A549 cells using CHEK2 antibody.

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Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Immunohistochemistry of paraffin-embedded human lung cancer using CHEK2 antibody.

Please check the product details page for more images. Overall 5 images are available for ABIN6138520.