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Datasheet for ABIN3023035 anti-CHEK2 antibody (AA 1-220)

5 Images

2 Publications



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)	
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	
lsotype:	IgG	
Cross-Reactivity:	Human, Mouse, Rat	
Characteristics:	Polyclonal Antibodies	

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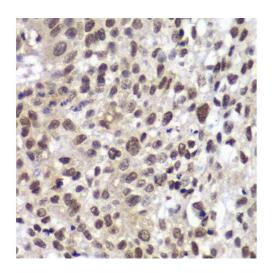
Target Details		
Target:	CHEK2	
Alternative Name:	CHEK2 (CHEK2 Products)	
Background:	In response to DNA damage and replication blocks, cell cycle progression is halted through the control of critical cell cycle regulators. The protein encoded by this gene is a cell cycle checkpoint regulator and putative 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	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.	

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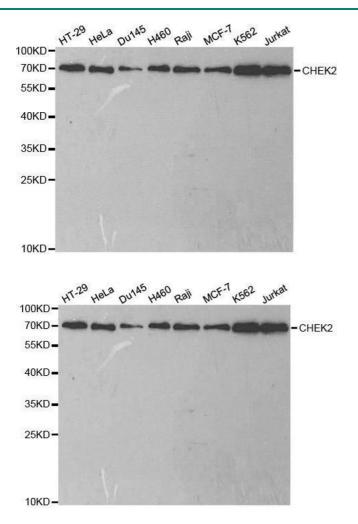
-	
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze / thaw cycles
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.
Publications	
Product cited in:	Zheng, Zhou, Zhang, Thu, Xie, Lu, Pang, Xue, Xu, Chen, Chen, Li, Xu: "Anhydroicaritin improves diet-induced obesity and hyperlipidemia and alleviates insulin resistance by suppressing SREBPs activation." in: Biochemical pharmacology , Vol. 122, pp. 42-61, (2017) (PubMed).
	Guo, Hu, Chen, Li, Ye, Cheng, Zhang, He: "iTRAQ-based comparative proteomic analysis of Vero cells infected with virulent and CV777 vaccine strain-like strains of porcine epidemic diarrhea virus." in: Journal of proteomics , Vol. 130, pp. 65-75, (2016) (PubMed).

Images



Immunohistochemistry

Image 1.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using CHEK2 antibody.

Western Blotting

Image 3. Western blot analysis of extracts of various cell lines, using CHEK2 antibody.

Please check the product details page for more images. Overall 5 images are available for ABIN3023035.