

Datasheet for ABIN3043811

anti-CHEK2 antibody (C-Term)

2 Images



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Quantity:	100 μg
Target:	CHEK2
Binding Specificity:	AA 465-498, C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CHEK2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)
Product Details	
Purpose:	Anti-Chk2/CHEK2 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human Chk2, different from the related mouse sequence by four amino acids.
Sequence:	KLLVVDPKAR FTTEEALRHP WLQDEDMKRK FQDL
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	

as Picoband, ensuring unmatched performance.

background in Western blot applications. Only our best-performing antibodies are designated

Product Details Purification:

Immunogen affinity purified.

Target:	CHEK2
Alternative Name:	CHEK2 (CHEK2 Products)
Background:	Synonyms: Serine/threonine-protein kinase Chk2,2.7.11.1,CHK2 checkpoint homolog,Cds1
	homolog,Hucds1,hCds1,Checkpoint kinase 2,CHEK2,CDS1, CHK2, RAD53,
	Tissue Specificity: High expression is found in testis, spleen, colon and peripheral blood
	leukocytes. Low expression is found in other tissues.
	Background: CHK2, a protein kinase that is activated in response to DNA damage, is involved in
	cell cycle arrest. Mapped on 22q12.1, CHK2 has a potential regulatory region rich in SQ and TQ
	amino acid pairs. It regulates BRCA1 function after DNA damage by phosphorylating serine-98
	of BRCA1. Additionally, CHK2 can be modified by phosphorylation and activated in response to
	ionizing radiation, and can be also modified in response to hydroxyurea treatment. Furthermore
	oligomerization of CHEK2 increases the efficiency of transautophosphorylation, resulting in the
	release of active CHEK2 monomers that proceed to enforce checkpoint control in irradiated
	cells. Moreover, CHK2 is a tumor suppressor gene conferring predisposition to sarcoma, breas
	cancer, and brain tumors, and that their observations provided a link between the central role o
	p53 inactivation in human cancer and the well-defined G2 checkpoint in yeast. There is a wide
	expression of small amounts of CHK2 mRNA with larger amounts in human testis, spleen,
	colon, and peripheral blood leukocytes.
Molecular Weight:	65 kDa
Gene ID:	11200
UniProt:	096017
Pathways:	p53 Signaling, Apoptosis, Cell Division Cycle

Application Details

Application Notes:

Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human Western blot, 0.1-0.5 µg/mL, Human, Mouse, Rat 1. Ahn, J.-Y., Li, X., Davis, H. L., Canman, C. E.: Phosphorylation of threonine 68 promotes oligomerization and autophosphorylation of the Chk2 protein kinase via the forkheadassociated domain. J. Biol. Chem. 277: 19389-19395, 2002. 2. Bell, D. W., Varley, J. M., Szydlo, T. E., Kang, D. H., Wahrer, D. C. R., Shannon, K. E., Lubratovich, M., Verselis, S. J., Isselbacher, K.

J., Fraumeni, J. F., Birch, J. M., Li, F. P., Garber, J. E., Haber, D. A.: Heterozygous germ line
hCHK2 mutations in Li-Fraumeni syndrome. Science 286: 2528-2531, 1999. 3. Brown, A. L., Lee,
CH., Schwarz, J. K., Mitiku, N., Piwnica-Worms, H., Chung, J. H.: A human Cds1-related kinase
that functions downstream of ATM protein in the cellular response to DNA damage. Proc. Nat.
Acad. Sci. 96: 3745-3750, 1999. 4. Lee, JS., Collins, K. M., Brown, A. L., Lee, CH., Chung, J. H.:
hCds1-mediated phosphorylation of BRCA1 regulates the DNA damage response. Nature 404:
201-204, 2000.

Comment:

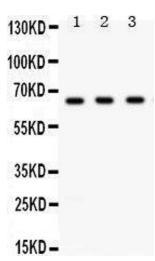
Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions:

For Research Use only

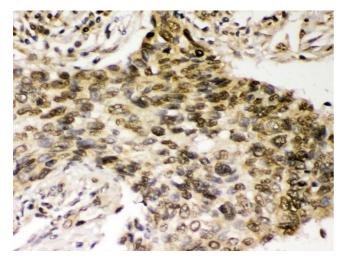
Handling

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 Na2HPO4, 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:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month.
	It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw
	cycles.



Western Blotting

Image 1.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2.