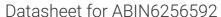
# antibodies - online.com







## anti-CHEK2 antibody (pThr68)

**Images** 



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Quantity:	100 μL	
Target:	CHEK2	
Binding Specificity:	pThr68	
Reactivity:	Human, Mouse, Rat	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This CHEK2 antibody is un-conjugated	
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)	

#### **Product Details**

Immunogen:	A synthesized peptide derived from human Chk2 around the phosphorylation site of Thr68.	
Isotype:	IgG	
Specificity:	Phospho-Chk2 (Thr68) Antibody detects endogenous levels of Chk2 only when phosphorylated at Threonine 68.	
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Rabbit,Dog	
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.	

#### **Target Details**

Target:	CHEK2		
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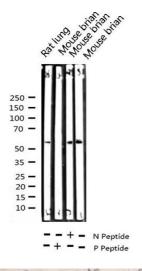
### **Target Details**

Alternative Name:	CHEK2 (CHEK2 Products)	
Background:	Description: Serine/threonine-protein kinase which is required for checkpoint-mediated cell	
	cycle arrest, activation of DNA repair and apoptosis in response to the presence of DNA double	
	strand breaks. May also negatively regulate cell cycle progression during unperturbed cell	
	cycles. Following activation, phosphorylates numerous effectors preferentially at the	
	consensus sequence [L-X-R-X-X-S/T]. Regulates cell cycle checkpoint arrest through	
	phosphorylation of CDC25A, CDC25B and CDC25C, inhibiting their activity. Inhibition of CDC25	
	phosphatase activity leads to increased inhibitory tyrosine phosphorylation of CDK-cyclin	
	complexes and blocks cell cycle progression. May also phosphorylate NEK6 which is involved	
	in G2/M cell cycle arrest. Regulates DNA repair through phosphorylation of BRCA2, enhancing	
	the association of RAD51 with chromatin which promotes DNA repair by homologous	
	recombination. Also stimulates the transcription of genes involved in DNA repair (including	
	BRCA2) through the phosphorylation and activation of the transcription factor FOXM1.	
	Regulates apoptosis through the phosphorylation of p53/TP53, MDM4 and PML.	
	Phosphorylation of p53/TP53 at 'Ser-20' by CHEK2 may alleviate inhibition by MDM2, leading t	
	accumulation of active p53/TP53. Phosphorylation of MDM4 may also reduce degradation of	
	p53/TP53. Also controls the transcription of pro-apoptotic genes through phosphorylation of	
	the transcription factor E2F1. Tumor suppressor, it may also have a DNA damage-independen	
	function in mitotic spindle assembly by phosphorylating BRCA1. Its absence may be a cause of	
	the chromosomal instability observed in some cancer cells. Promotes the CCAR2-SIRT1	
	association and is required for CCAR2-mediated SIRT1 inhibition (PubMed:25361978).	
	Gene: CHEK2	
Molecular Weight:	62kDa	
Gene ID:	11200	
UniProt:	096017	
Pathways:	p53 Signaling, Apoptosis, Cell Division Cycle	
Application Details		
Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000	
Restrictions:	For Research Use only	
Handling		

#### Handling

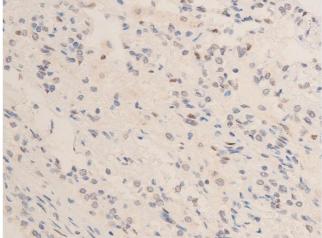
Concentration:	1 mg/mL	
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 $\%$ sodium azide and 50 $\%$ glycerol.	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.	
Storage:	-20 °C	
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.	
Expiry Date:	12 months	

#### **Images**



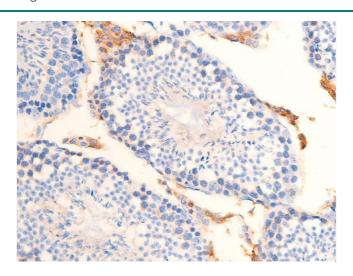
#### **Western Blotting**

**Image 1.** Western blot analysis of Phospho-Chk2 (Thr68) expression in various lysates



#### **Immunohistochemistry**

**Image 2.** ABIN6267253 at 1/100 staining human TB tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



#### **Immunohistochemistry**

**Image 3.** ABIN6267253 at 1/100 staining mouse testicular tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

Please check the product details page for more images. Overall 12 images are available for ABIN6256592.