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anti-CHEK2 antibody (pThr387)

10 Images

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Publication



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Quantity:	100 μL	
Target:	CHEK2	
Binding Specificity:	pThr387	
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 Thr387.
Isotype:	IgG
Specificity:	Phospho-Chk2 (Thr387) Antibody detects endogenous levels of Chk2 only when phosphorylated at Threonine 387.
Predicted Reactivity:	Pig,Zebrafish,Bovine,Horse,Sheep,Rabbit,Dog,Chicken,Xenopus
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

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-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-independent
	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

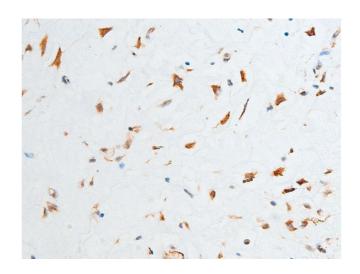
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 $\%$ sodium azide and 50 $\%$ glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.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

Publications

Product cited in:

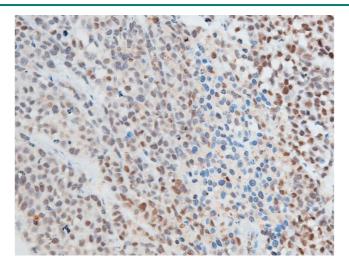
Liu, Li, Shu, Xiao, Feng: "Ephrin-b3 modulates hippocampal neurogenesis and the reelin signaling pathway in a pilocarpine-induced model of epilepsy." in: **International journal of molecular medicine**, Vol. 41, Issue 6, pp. 3457-3467, (2018) (PubMed).

Images



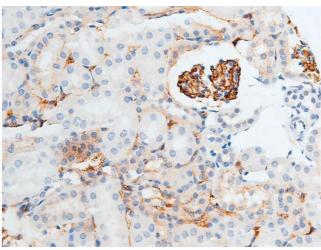
Immunohistochemistry

Image 1. ABIN6267250 at 1/100 staining human glioma 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 2. ABIN6267250 at 1/100 staining rat cancer 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. ABIN6267250 at 1/100 staining mouse kidney 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 10 images are available for ABIN6256554.