# .-online.com antibodies

# Datasheet for ABIN6256552 anti-CHEK2 antibody (pThr383)

12 Images



#### Overview

Quantity:	100 μL
Target:	CHEK2
Binding Specificity:	pThr383
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 Thr383.
Isotype:	IgG
Specificity:	Phospho-Chk2 (Thr383) Antibody detects endogenous levels of Chk2 only when phosphorylated at Threonine 383.
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

Т	orc	· - + ·
- I	arc	iei.

CHEK2

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN6256552 | 09/10/2023 | Copyright antibodies-online. All rights reserved.

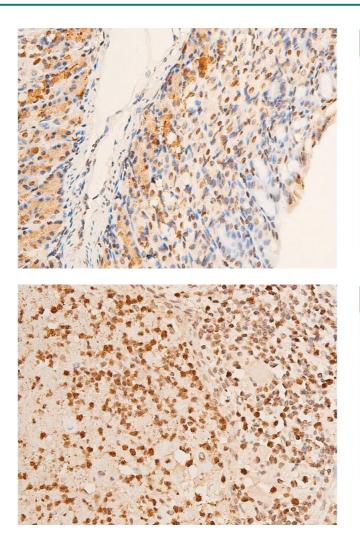
Alternative Name:	CHEK2 (CHEK2 Products)
Background:	Description: Serine/threonine-protein kinase which is required for checkpoint-mediated cell
	cycle arrest, activation of DNA repair and apoptosis in response to the presence of DNA double
	strand breaks. May also negatively regulate cell cycle progression 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 to
	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 o
	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:	60kDa
Gene ID:	11200
UniProt:	096017
Pathways:	p53 Signaling, Apoptosis, Cell Division Cycle
Application Details	
Application Notes:	WB 1:500-1:2000, IF/ICC 1:100-1:500, IHC 1:50-1:1000, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid

International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN6256552 | 09/10/2023 | Copyright antibodies-online. All rights reserved.

#### 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



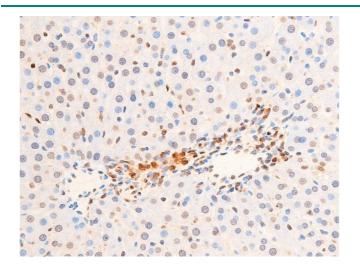
#### Immunohistochemistry

**Image 1.** ABIN6267251 at 1/100 staining mouse gastric 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.** ABIN6267251 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.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN6256552 | 09/10/2023 | Copyright antibodies-online. All rights reserved.



#### Immunohistochemistry

**Image 3.** ABIN6267251 at 1/100 staining rat liver 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 ABIN6256552.