

Datasheet for ABIN1881196  
**anti-CHEK2 antibody (N-Term)**

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## Overview

Quantity:	400 µL
Target:	CHEK2
Binding Specificity:	AA 111-141, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CHEK2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS)

## Product Details

Immunogen:	This CHEK2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 111-141 amino acids from the N-terminal region of human CHEK2.
Clone:	RB19067
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

## Target Details

Target:	CHEK2
Alternative Name:	CHEK2 ( <a href="#">CHEK2 Products</a> )

## Target Details

Background:	CHEK2 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.
Molecular Weight:	60915
NCBI Accession:	<a href="#">NP_001005735</a> , <a href="#">NP_001244316</a> , <a href="#">NP_009125</a> , <a href="#">NP_665861</a>
UniProt:	<a href="#">O96017</a>
Pathways:	<a href="#">p53 Signaling</a> , <a href="#">Apoptosis</a> , <a href="#">Cell Division Cycle</a>

## Application Details

Application Notes:	IF: 1:10~50. WB: 1:1000. WB: 1:1000. IHC-P: 1:50~100. FC: 1:10~50
Restrictions:	For Research Use only

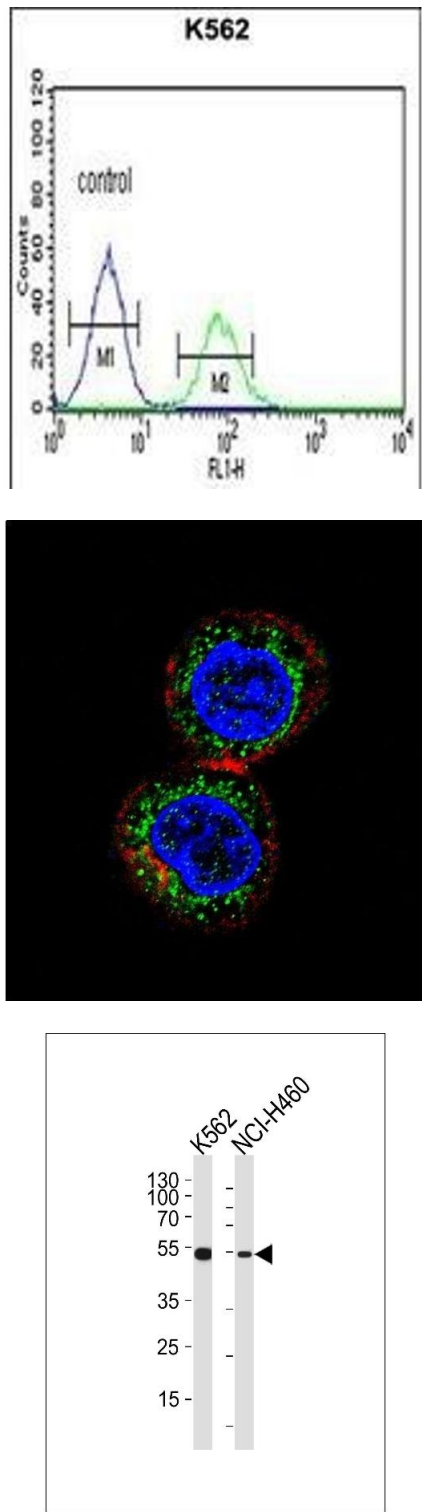
## Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) 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.
Storage:	4 °C, -20 °C
Expiry Date:	6 months

## Publications

Product cited in:	Maeda, Inoguchi, Takei, Sawada, Sasaki, Fujii, Kobayashi, Urata, Nishiyama, Takayanagi: "Inhibition of chymase protects against diabetes-induced oxidative stress and renal dysfunction in hamsters." in: <b>American journal of physiology. Renal physiology</b> , Vol. 299, Issue 6, pp.
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Images



Flow Cytometry

**Image 1.** CHEK2 Antibody (N-term) (ABIN1881196 and ABIN2840120) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Immunofluorescence

**Image 2.** Confocal immunofluorescent analysis of CHEK2 Antibody (N-term) (ABIN1881196 and ABIN2840120) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red).DI was used to stain the cell nuclear (blue).

Western Blotting

**Image 3.** CHEK2 Antibody (N-term) (ABIN1881196 and ABIN2840120) western blot analysis in K562,NCI- cell line lysates (35 µg/lane).This demonstrates the CHEK2 antibody detected the CHEK2 protein (arrow).

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN1881196.