Datasheet for ABIN6976502

anti-CHEK2 antibody (pSer33, pSer35) (AbBy Fluor® 350)

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Overview

Quantity:	100 µL
Target:	CHEK2
Binding Specificity:	pSer33, pSer35
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CHEK2 antibody is conjugated to AbBy Fluor® 350
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated Synthesised phosphopeptide derived from human CHK2 isoform c around the phosphorylation site of Ser33 + Ser35
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Purified by Protein A.

Target Details

Target:	CHEK2
Alternative Name:	CHK2 ((CHEK2 Products)

Target Details

Background:	Synonyms: Chk2 (phospho S33 + S35), p-Chk2 (phospho S33 + S35), bA444G7, CHK2 checkpoint homolog, CHK2_HUMAN, Serine/threonine-protein kinase Chk2, CDS 1, CDS1, Checkpoint kinase 2, Checkpoint like protein CHK2, Chek 2, Chek2, Chk 2, CHK2 checkpoint homolog (S. pombe), CHK2 checkpoint homolog, HuCds 1, HuCds1, LFS 2, LFS2, PP1425, RAD 53, RAD53, Rad53 homolog, Serine/threonine protein kinase Chk2. Background: In response to DNA damage and replication blocks, cell cycle progression is halted through the control of critical cell cycle regulators. The protein encoded by this gene 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. Also, mutations in this gene are thought to confer a predisposition to sarcomas, breast cancer, and brain tumors. This nuclear protein is a member of the CDS1 subfamily of serine/threonine protein kinases. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2012]
Gene ID:	11200
UniProt:	O96017
Pathways:	p53 Signaling, Apoptosis, Cell Division Cycle

Application Details

Application Notes:	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and

Handling

	50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months