

Datasheet for ABIN1393350

anti-CHEK2 antibody (AA 101-200) (AbBy Fluor® 647)



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Overview

Quantity:	100 µL
Target:	CHEK2
Binding Specificity:	AA 101-200
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CHEK2 antibody is conjugated to AbBy Fluor® 647
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Rad53/SPK1
Isotype:	IgG
Predicted Reactivity:	Human, Mouse, Rat, Dog, Cow, Sheep, Pig, Horse, Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	CHEK2
Alternative Name:	Rad53/SPK1 (CHEK2 Products)
Background:	Synonyms: CHEK2 homolog, CHK2 homolog, MEC2, RAD53, RAD53_YEAST, Serine protein

Target Details

kinase 1, Serine-protein kinase 1, Serine/threonine-protein kinase RAD53, SPK1.

Background: DNA damage results in the arrest of cell cycle progression, allowing the damaged DNA to be repaired prior to replication. Checkpoints exist at several cell cycle phase transitions to maintain this genetic integrity. Rad9, Rad17, Rad24 and Mec3 are involved in activating the G1 and G2 checkpoints (14). Pol2 (also known as Dun2), encoding the catalytic subunit of DNA polymerase epsilon, plays a role in activating the S phase checkpoint (5). The protein kinase Rad53 (also designated Spk1, Mec2 or Sad1) is essential for both G2 and S phase arrest. Activation of Rad53 is regulated by Mec1 (also known as Esr1 and Sad3), a homolog of the human ATM protein (6). Pds1 and Mad2 both regulate checkpoints associated with incomplete spindle replication (7,8). Dun1, another protein kinase, plays a role in transducing the DNA damage signal (9).

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 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