

KD-Validated Anti-Checkpoint Kinase 1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

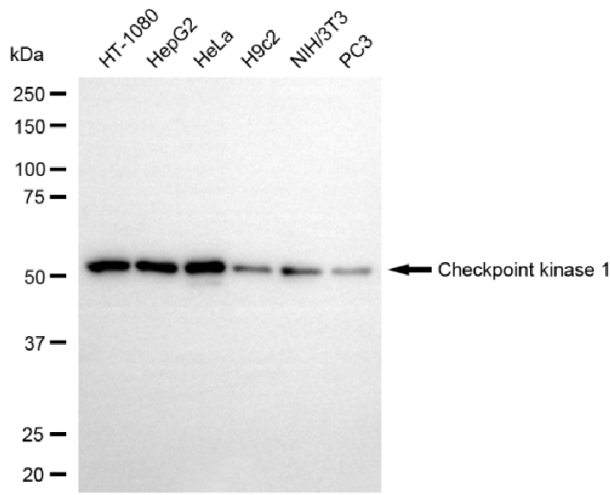
ABG1300

Product Overview

Name	KD-Validated Anti-Checkpoint Kinase 1 Rabbit Monoclonal Antibody
Accession(Primary)	O14757
Host Species	Rabbit
Clonality	Monoclonal
Isotype	Rabbit IgG
Immunogen	A synthesized peptide derived from human Chk1
Species Reactivity	Human, Mouse, Rat
Calculated MW	Predicted, 54 kDa; observed, 54 kDa
Storage Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Recommended Dilution	Western blotting (WB): 1:1,000-1:5,000 Flow Cytometry (FCM): 1:2,000 Immunocytochemistry (IC): 1:100-1:1,000

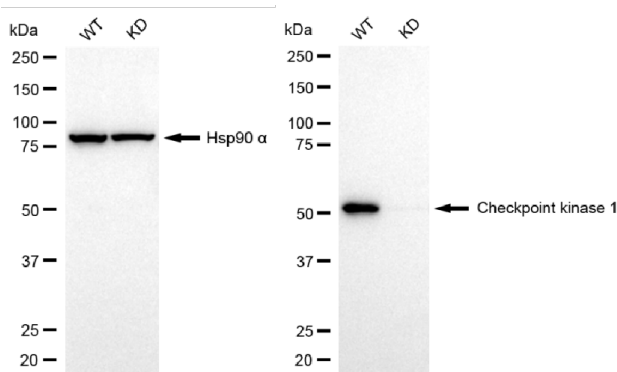
Target information (O14757)

Gene Name	CHEK1
About Gene Symbol	CHEK1 (Checkpoint Kinase 1) is a serine/threonine protein kinase involved in cell cycle regulation. It is an important research target in cancer, cell signaling, and therapeutic target research and is widely studied to elucidate cellular mechanisms and identify therapeutic targets.



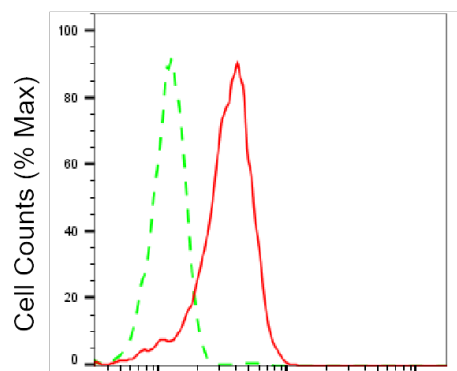
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Western blotting analysis using anti-checkpoint kinase 1 antibody (Cat#ABG1300). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-checkpoint kinase 1 antibody (Cat#ABG1300, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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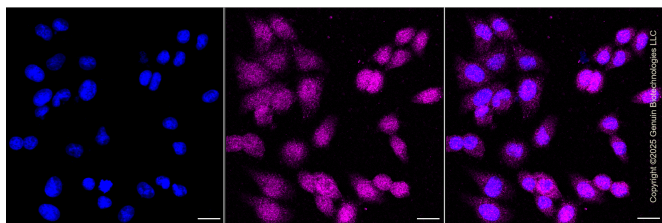
Western blotting analysis using anti-checkpoint kinase 1 antibody (Cat#ABG1300). Checkpoint kinase 1 expression in wild-type (WT) and checkpoint kinase 1 (CHEK1) knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-checkpoint kinase 1 antibody (Cat#ABG1300, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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Flow cytometric analysis of Checkpoint kinase 1 expression in HepG2 cells using anti-Checkpoint kinase 1 antibody (Cat#ABG1300, 1:2,000). Green, isotype control; red, Checkpoint kinase 1.

Checkpoint kinase 1-Alexa Fluor® 647



Immunocytochemical staining of HepG2 cells with anti-Checkpoint kinase 1 antibody (Cat#ABG1300, 1:1,000). Nuclei were stained blue with DAPI; Checkpoint kinase 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 μ m.