Product Datasheet

Chk2 Antibody (8F12) - Azide and BSA Free
NB100-500

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Publications: 2

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
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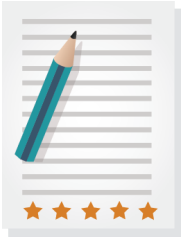
Updated 9/25/2025 v.20.1



NB100-500

Chk2 Antibody (8F12) - Azide and BSA Free

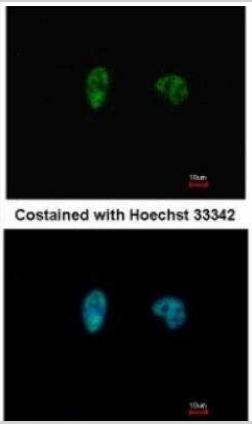
Product Information	
Unit Size	100 ul
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	8F12
Preservative	No Preservative
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS, 20% Glycerol
Target Molecular Weight	61 kDa

Product Description	
Description	Novus Biologicals Mouse Chk2 Antibody (8F12) - Azide and BSA Free (NB100-500) is a monoclonal antibody validated for use in WB and ICC/IF. Anti-Chk2 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	11200
Gene Symbol	CHEK2
Species	Human, Mouse
Specificity/Sensitivity	Specific for human Chk2 protein.
Immunogen	Recombinant Chk2 protein

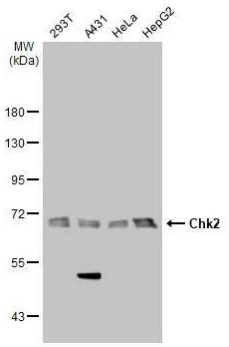
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 1:500-1:3000, Immunocytochemistry/ Immunofluorescence 1:500
Application Notes	WB: Detects Chk2 protein in approx. 20 - 40 ug total cell extract at 1:1000 dilution

Images

Immunocytochemistry/Immunofluorescence: Chk2 Antibody (8F12) [NB100-500] - Immunofluorescence analysis of paraformaldehyde-fixed HeLa, using 1:500 dilution.



Western Blot: Chk2 Antibody (8F12) [NB100-500] - Various whole cell extracts (30 ug) were separated by 10% SDS-PAGE, and the membrane was blotted with Chk2 antibody [8F12] (NB100-500) diluted at 1:500. The HRP-conjugated anti-mouse IgG antibody was used to detect the primary antibody, and the signal was developed with Trident ECL plus-Enhanced.



Proposed effects of AHCY silencing on cell cycle regulating proteins and checkpoints based on Western blotting results. (A) Upper panel: Protein expression levels (names listed in Table 2) analysed by Western blotting (30–80 µg of whole cell proteins loaded per well). Bands in lane marked with “X" were not analysed. Lower panel: Signal densitometry was performed using ImageJ software. Each band was normalized using β-actin as the loading control. The shAHCY signal for each protein was expressed as the % change versus shCRTL, which was set to 100% (orange line). (B and C) Schematic diagrams of the Western blot results, for which changes in the signal for each analysed protein in AHCY-silenced cell lysates are represented as the % change versus control cells (set as 100%). Signal densitometry was performed in ImageJ software, and each band was normalized using β-actin as the loading control. Maximum change between β-actin signals for the same sample on 10 membranes exposed at the same time is +/− 11.2% and was used to verify the degree of reproducibility of the method as well as to designate all the proteins with expression changes lower than +/− 11.2% as unchanged. “p" signifies the phosphorylated form of the protein. Arrows indicate the positive impact on the downstream molecule (activation), while bars represent the negative impact on the downstream molecule (repression). The large arrow indicates the cell cycle where the cell phases are marked with G1, S, G2 and M, while horizontal bars represent cell cycle checkpoints marked red if impacted by the proposed pathways. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/30228286), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

Publications

Park SJ, Kong HK, Kim YS et al. Inhibition of S-adenosylhomocysteine hydrolase decreases cell mobility and cell proliferation through cell cycle arrest. Am J Cancer Res 2015-01-01 [PMID: 26328244] (WB)

Chen HM, Chang FR, Hsieh YC et al. A novel synthetic protoapigenone analogue, WYC02-9, induces DNA damage and apoptosis in DU145 prostate cancer cells through generation of reactive oxygen species. Free Radic Biol Med 2011-05-01 [PMID: 21256211]

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Products Related to NB100-500

NBL1-09147	Chk2 Overexpression Lysate
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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