

Product Datasheet

Chk1 Antibody (2G1D5) - BSA Free NB100-1768

Unit Size: 0.1 ml

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

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NB100-1768

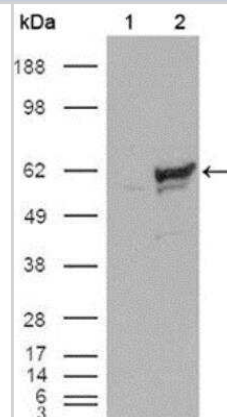
Chk1 Antibody (2G1D5) - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	2G1D5
Preservative	0.03% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	56 kDa
Product Description	
Host	Mouse
Gene ID	1111
Gene Symbol	CHEK1
Species	Human
Immunogen	Purified recombinant fragment of Chk1 expressed in E. coli. [UniProt# O14757]
Product Application Details	
Applications	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:200 - 1:1000, Simple Western 1:100, Immunohistochemistry 1:250, Immunocytochemistry/ Immunofluorescence 1:10 - 1:500, Immunohistochemistry-Paraffin 1:250
Application Notes	Simple Western reported by an internal validation. Separated by Size, antibody dilution of 1:100



Images

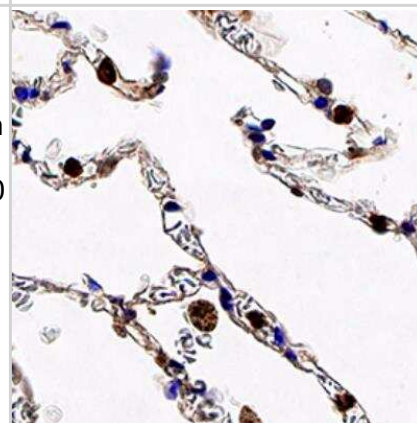
Western Blot: Chk1 Antibody (2G1D5) [NB100-1768] - Analysis using Chk1 mouse mAb against HEK293T cells transfected with the pCMV6-ENTRY control (1) and pCMV6-ENTRY Chk1 cDNA (2).



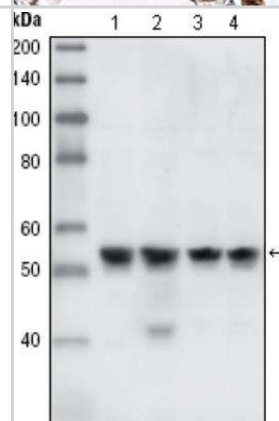
Immunocytochemistry/Immunofluorescence: Chk1 Antibody (2G1D5) [NB100-1768] - Chk1 antibody was tested at 1:10 in HeLa cells with DyLight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red). Image objective 40X.



Immunohistochemistry-Paraffin: Chk1 Antibody (2G1D5) [NB100-1768] - Analysis of FFPE human lung using Chk1 antibody (clone 2G1D5) at 1:250 on a Bond Rx autostainer (Leica Biosystems). The assay involved 20 minutes of heat induced antigen retrieval (HIER) using 10 mM sodium citrate buffer (pH 6.0) and endogenous peroxidase quenching with peroxide block. The sections were incubated with primary antibody for 30 minutes and Bond Polymer Refine Detection (Leica Biosystems) with DAB was used for signal development followed by counterstaining with hematoxylin. Whole slide scanning and capturing of representative images was performed using Aperio AT2 (Leica Biosystems). Cytoplasmic and nuclear staining of Chk1 was observed as this is a ubiquitous cell checkpoint protein. Staining was performed by Histowiz.



Western Blot: Chk1 Antibody (2G1D5) [NB100-1768] - Analysis using anti-Chk1 mouse mAb against A431 (1), Hela (2), NIH/3T3 (3) and K562 (4) cell lysates.



Publications

A Kannan, K Bhatia, D Brnzei, L Gangwani Combined deficiency of Senataxin and DNA-PKcs causes DNA damage accumulation and neurodegeneration in spinal muscular atrophy *Nucleic Acids Res.*, 2018-09-19;0(0):. 2018-09-19 [PMID: 30010942] (Simple Western, Human)



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Products Related to NB100-1768

NB800-PC8	NIH 3T3 Whole Cell Lysate
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
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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