Product Datasheet

Chk1 Antibody - BSA Free NB100-464

Unit Size: 100 ul

Store at 4C. Do not freeze.

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NB100-464

Chk1 Antibody - BSA Free

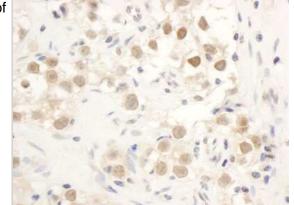
Product Information		
Unit Size	100 ul	
Concentration	1.0 mg/ml	
Storage	Store at 4C. Do not freeze.	
Clonality	Polyclonal	
Preservative	0.09% Sodium Azide	
Isotype	IgG	
Purity	Immunogen affinity purified	
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)	
Target Molecular Weight	54 kDa	
Product Description		
Description	This antibody can be used as the primary antibody in a PLA assay with the following as complementing antibodies: NB100-305, NB100-322, NB100-97831	
Host	Rabbit	
Gene ID	1111	
Gene Symbol	CHEK1	
Species	Human, Mouse	
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 29287241).	
Immunogen	The immunogen recognized by this antibody maps to a region between residues 250 and 300 of human Checkpoint Kinase 1 using the numbering given in SwissProt entry O14757 (GeneID 1111).	
Notes	This antibody can be used as the primary antibody in a PLA assay with the following as complementing antibodies: NB100-305, NB100-322, NB100-97831	
Product Application Details		
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation	
Recommended Dilutions	Western Blot 1:10000-1:25000, Immunohistochemistry 1:1000-1:5000, Immunoprecipitation 2-10 ug/mg lysate, Immunohistochemistry-Paraffin 1:1000- 1:5000	
Application Notes	Epitope retrieval with Tris-EDTA pH 9.0 is recommended for FFPE tissue sections.	

Images

Western Blot: Chk1 Antibody [NB100-464] - Knockout of ORC2 in HCT116 p53-/- cells. Western blot of ORC2 in HBEC and 293T cell lines. Ponceau S staining of total protein or immunoblot of Chk1 show equal loading of the pairs of lanes. Image collected and cropped by CiteAb from the following publication (https://elifesciences.org/articles/19084), licensed under a CC-BY license.



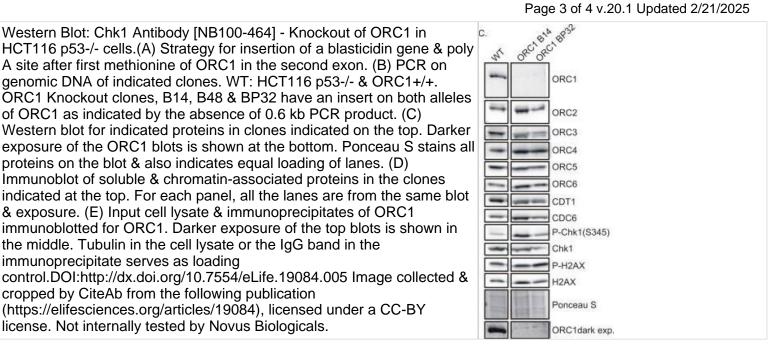
Immunohistochemistry-Paraffin: Chk1 Antibody [NB100-464] - Section of human breast carcinoma. Antibody: Affinity purified rabbit anti-CHK1 used at a dilution of 1:1,000 (1ug/ml). Detection: DAB



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Western Blot: Chk1 Antibody [NB100-464] - Detection of Human Chk1 by Western Blot. Samples: Whole cell lysate (50 ug) from HeLa, 293T, Jurkat, and mouse TMCK cells. Antibodies: Affinity purified rabbit anti- Chk1 antibody NB100-464 used for WB at 0.4 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.	KDa 250 - 130 - 70 - 51 - ← Chk1 38 - 28 - 19 - 16 - 16 - 16 - 16 -
Immunoprecipitation: Chk1 Antibody [NB100-464] - Detection of human Chk1 by western blot of immunoprecipitates. Samples: Whole cell lysate (1 mg for IP; 20% of IP loaded) from HeLa cells. Antibodies: Affinity purified rabbit anti-Chk1 antibody NB100-464 (lot 2) used for IP at 6 ug/mg lysate. Chk1 was also immunoprecipitated by a previous lot (lot 1) of this antibody. For blotting immunoprecipitated Chk1, NB100-464 (lot 2) was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.	$ \begin{array}{c} \text{IP/WB} \\ \text{250} \\ 130 \\ 70 \\ 51 \\ \hline 70 \\ \hline$
Western Blot: Chk1 Antibody [NB100-464] - Knockout of ORC2 in HCT116 p53-/- cells.(G) WB for indicated proteins in clones indicated on the top. Darker exposure of ORC2 blots is shown at the bottom. Ponceau S stains all proteins on the blot & also indicates equal loading of lanes. Image collected & cropped by CiteAb from the following publication (https://elifesciences.org/articles/19084), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	3. W Grother Gale B 100- 75- 75- 75- 75- 75- 75- 75- 75

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Publications

Shibata, E & Dutta, A. A human cancer cell line initiates DNA replication normally in the absence of ORC5 and ORC2 proteins. J Biol Chem 2020-12-11 [PMID: 33453950] (IF/IHC, Human)

Shibata E, Dutta A A human cancer cell line initiates DNA replication normally in the absence of ORC5 and ORC2 proteins The Journal of biological chemistry 2020-12-11 [PMID: 32989049] (WB, Human)

Morris BB, Wages NA, Grant PA, et al. MYBL2-Driven Transcriptional Programs Link Replication Stress and Errorprone DNA Repair With Genomic Instability in Lung Adenocarcinoma Frontiers in oncology 2020-01-08 [PMID: 33489883] (WB, Human)

Lee KY, Dutta A Chk1 promotes non-homologous end joining in G1 through direct phosphorylation of ASF1A Cell reports 2021-01-26 [PMID: 33503415] (IP, Human)

Yun H, Shi R, Yang Q et al. Over expression of hRad9 protein correlates with reduced chemosensitivity in breast cancer with administration of neoadjuvant chemotherapy Sci Rep. 2014-12-17 [PMID: 25520248] (IF/IHC, Human)

Shibata E, Kiran M, Shibata Y et al. Two subunits of human ORC are dispensable for DNA replication and proliferation Elife. 2016-11-30 [PMID: 27906128] (WB, Human)

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Hong J, Hu K, Yuan Y et al. CHK1 targets spleen tyrosine kinase (L) for proteolysis in hepatocellular carcinoma J Clin Invest 2012-06-01 [PMID: 22585575] (WB, IF/IHC, Human)

Karnani N, Dutta A. The effect of the intra-S-phase checkpoint on origins of replication in human cells. Genes Dev;25 (6):621-33. 2011-03-15 [PMID: 21406556]





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Products Related to NB100-464

NBL1-09146	Chk1 Overexpression Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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