Product Datasheet

RPA2 [p Ser4, p Ser8] Antibody - BSA Free
NBP1-23017

Unit Size: 100 ul

Store at 4C. Do not freeze.

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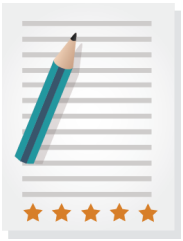
Updated 2/21/2025 v.20.1



NBP1-23017

RPA2 [p Ser4, p Ser8] 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)

Product Description

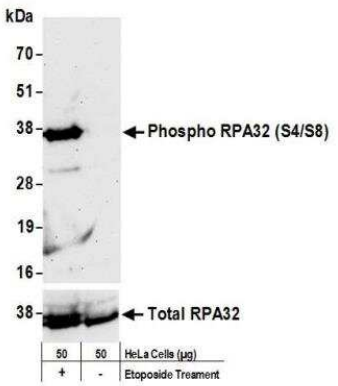
Host	Rabbit
Gene ID	6118
Gene Symbol	RPA2
Species	Human, Mouse
Immunogen	Immunogen was a dually phosphorylated synthetic peptide, which represented a portion of human replication protein A2, 32 kDa surrounding phosphorylated serines that corresponded to positions 4 and 8 using the numbering given in entry NP_002937.1 (GeneID

Product Application Details

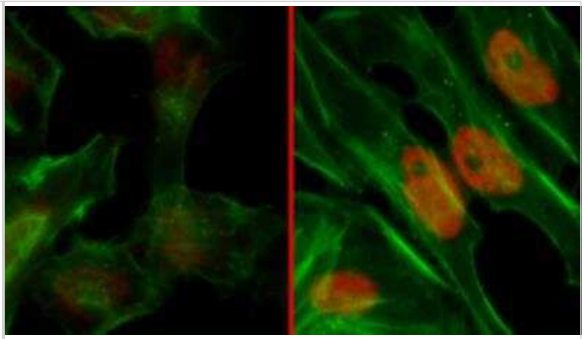
Applications	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Knockdown Validated
Recommended Dilutions	Western Blot 1:2000-1:10000, Simple Western, Immunohistochemistry 1:500 - 1:2000, Immunocytochemistry/ Immunofluorescence 1:500 - 1:5000, Immunoprecipitation 2-10 ug/mg of lysate, Immunohistochemistry-Paraffin 1:500 - 1:2000, Knockdown Validated
Application Notes	Formaldehyde fixation is recommended. Permeabilization with Triton-X 100 is recommended for formaldehydefixed cells. Epitope retrieval with Tris-EDTA pH9.0 is recommended for FFPE tissue sections. See Simple Western Antibody Database for Simple Western validation: tested in human squamous carcinoma cells; antibody dilution of 1:50; separated by charge

Images

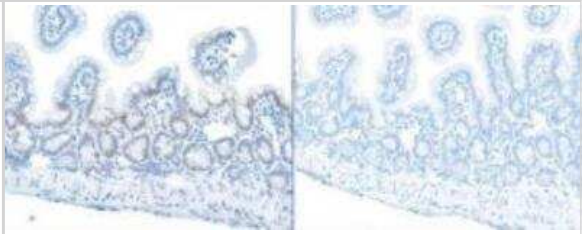
Western Blot: RPA2 [p Ser4, p Ser8] Antibody [NBP1-23017] - Detection of Human Phospho RPA32 (S4/S8) by western blot. Samples: Whole cell lysate (50 ug) from HeLa cells treated with 100 uM EPE (+) or mock treated (-). Antibodies: Affinity purified rabbit anti-Phospho RPA32 (S4/S8) antibody NBP1-23017 used at 0.1 ug/ml. Lower panel: Rabbit anti-RPA32 antibody NB100-332. Detection: Chemiluminescence with an exposure time of 75 seconds.



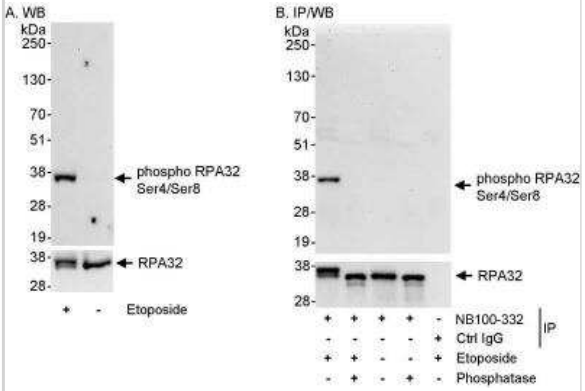
Immunocytochemistry/Immunofluorescence: RPA2 [p Ser4, p Ser8] Antibody [NBP1-23017] - Formaldehyde-fixed asynchronous HeLa cells. Untreated cells (left) and EPE treated cells (right). Antibody: Affinity purified rabbit anti- Phospho RPA32 (S4/S8) used at a dilution of 1:1,000 (1ug/ml). Detection: Red-fluorescent goat anti-rabbit IgG-heavy and light chain cross-adsorbed Antibody DyLight® 594 Conjugated used at a dilution of 1:100. Counterstain: Alexa Fluor (R) 488 phalloidin (green).



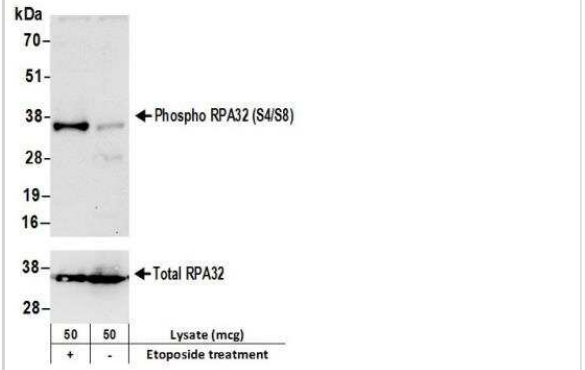
Immunohistochemistry-Paraffin: RPA2 [p Ser4, p Ser8] Antibody [NBP1-23017] - Section of mouse gut, MOCK treatment (left) and CIP treatment (right). Antibody: Affinity purified rabbit anti-Phospho RPA32 (S4/S8) used at a dilution of 1:1,000 (1ug/ml). Detection: DAB

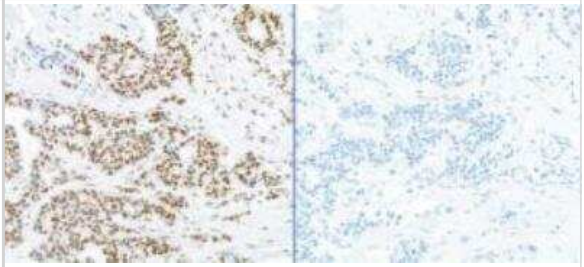
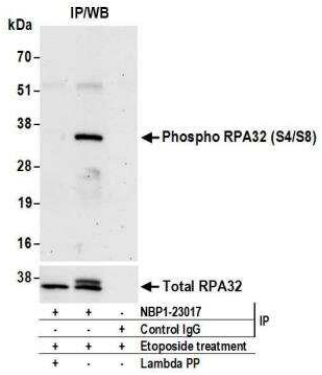


Western Blot: RPA2 [p Ser4, p Ser8] Antibody [NBP1-23017] - Samples: Whole cell lysate (50 ug for WB in A; 1 mg for IP, 20% of IP loaded in B) from HeLa Cells that had been treated with EPE (+) or mock treated (-). In B, immunoprecipitated RPA32 was either treated with phosphatase (+) or mock treated (-). Antibodies: Phosphorylated RPA32 was detected using rabbit anti-phospho RPA32 Ser4/Ser8 antibody NBP1-23017 lot 2 at 1 ug/ml. Total RPA32 was detected using rabbit anti-RPA32 antibody NB100-332 at 1 ug/ml. RPA32 was immunoprecipitated using NB100-332 at 3 ug/mg lysate. Detection: Chemiluminescence with exposure times of 30 seconds for phospho RPA32 Ser4/Ser8 (A and B) and 1 second for total RPA32 (A and B).



Western Blot: RPA2 [p Ser4, p Ser8] Antibody [NBP1-23017] - Detection of Human Phospho RPA32 (S4/S8) by Western Blot. Samples: Whole cell lysate (50 ug) from HeLa cells treated with 100 uM EPE for 4 hours (+) or mock treated (-) cells. Antibodies: Affinity purified rabbit anti-Phospho RPA32 (S4/S8) antibody NBP1-23017 used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds. Lower panel shows Westen Blot for total RPA32 using affinity purified rabbit anti-RPA32 antibody A300-244A at 0.1 ug/ml with an exposure time of 30 seconds.



Immunohistochemistry-Paraffin: RPA2 [p Ser4, p Ser8] Antibody [NBP1-23017] - Section of human breast carcinoma, MOCK treatment (left) and CIP treatment (right). Antibody: Affinity purified rabbit anti-Phospho RPA32 (S4/S8) (used at a dilution of 1:1,000 (1ug/ml). Detection: DAB	
Immunoprecipitation: RPA2 [p Ser4, p Ser8] Antibody [NBP1-23017] - Detection of human Phospho RPA32 (S4/S8) by western blot of immunoprecipitates. Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HeLa cells treated with EPE (+) and/or Lambda PP (+) or mock treated (-). Antibodies: RPA32 (S4/S8) was immunoprecipitated using affinity purified rabbit anti-RPA32 antibody NB100-332. For blotting immunoprecipitated Phospho RPA32 (S4/S8), rabbit anti-Phospho RPA32 (S4/S8) antibody NBP1-23017 was used at 0.1 ug/ml. Lower Panel: Rabbit anti-RPA antibody NB100-332. Detection: Chemiluminescence with an exposure time of 75 seconds.	

Publications

Warren NJH, Donahue KL, Eastman A., et Al. Differential Sensitivity to CDK2 Inhibition Discriminates the Molecular Mechanisms of CHK1 Inhibitors as Monotherapy or in Combination with the Topoisomerase I Inhibitor SN38 ACS Pharmacol Transl Sci 2020-04-08 [PMID: 32259055]

Gao Y, Guitton-Sert L, Dessapt J et Al. A CRISPR-Cas9 screen identifies EXO1 as a formaldehyde resistance gene Nat Commun 2023-01-24 [PMID: 36693839] (Western Blot)

Chen L, Gai X, Yu X. et Al. Pre-rRNA facilitates the recruitment of RAD51AP1 to DNA double-strand breaks J Biol Chem 2024-02-24 [PMID: 38403248]

Wu X, Cai G, Feng J et Al. HMGN1 loss sensitizes lung cancer cells to chemotherapy Sci Rep 2024-05-06 [PMID: 38710740]

Elfar, GA;Aning, O;Ngai, TW;Yeo, P;Chan, JWK;Sim, SH;Goh, L;Yuan, J;Phua, CZJ;Yeo, JZZ;Mak, SY;Goh, BKP;Chow, PK;Tam, WL;Ho, YS;Cheok, CF; p53-dependent crosstalk between DNA replication integrity and redox metabolism mediated through a NRF2-PARP1 axis Nucleic acids research 2024-09-24 [PMID: 39315696]

zhang s, Zhao Y, Wang X et al. Sublethal Auranofin Potentiates Tumor Responses to ATR Inhibition by Inducing Oxidative DNA Damage Selectively in Cancer Cells SSRN Electronic Journal 2023-03-20

Shinoda K, Zong D, Callen E et al. The dystonia gene THAP1 controls DNA double-strand break repair choice Molecular cell 2021-04-06 [PMID: 33857404]

Zhang S, Zhao Y, Wang X et al. Synergistic lethality between auranofin-induced oxidative DNA damage and ATR inhibition in cancer cells Life sciences 2023-11-01 [PMID: 37778414] (Western Blot, Human)

Venkatesan S, Angelova M, Puttick C et al. Induction of APOBEC3 Exacerbates DNA Replication Stress and Chromosomal Instability in Early Breast and Lung Cancer Evolution Cancer Discovery 2021-10-01 [PMID: 33947663] (Immunohistochemistry)

Niu J, Wang J, Zhang Q et al. Cinobufagin-induced DNA damage response activates G(2)/M checkpoint and apoptosis to cause selective cytotoxicity in cancer cells Cancer Cell International 2021-12-01 [PMID: 34425836] (Immunoprecipitation, Western Blot)

Liao C, Talluri S, Zhao J et al. RAD51 Is Implicated in DNA Damage, Chemoresistance and Immune Dysregulation in Solid Tumors Cancers 2022-11-20 [PMID: 36428789] (WB, Human)

de Krijger I, FOhr B, PErez SH et al. MAD2L2 dimerization and TRIP13 control shieldin activity in DNA repair Nature communications 2021-09-14 [PMID: 34521823] (WB, Human)

More publications at http://www.novusbio.com/NBP1-23017

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NBP1-50878-0.05mg	Recombinant Human RPA2 His Protein

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