

Product Datasheet

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

Unit Size: 100 ul

Store at 4C. Do not freeze.

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NBP1-23017

RPA2 [p Ser4, p Ser8] Antibody

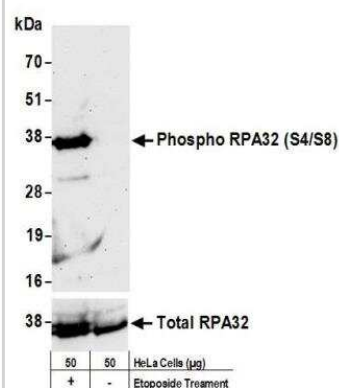
Product Information	
Unit Size	100 ul
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)

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)

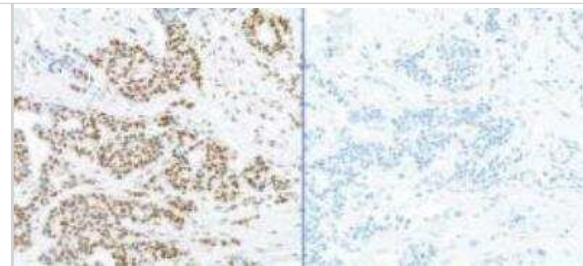
Product Application Details	
Applications	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Knockdown Validated
Recommended Dilutions	Western Blot 1:2000-1:10000, Simple Western, Immunohistochemistry 1:500 - 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. Simple Western reported by an internal validation. Separated by Charge, antibody dilution of 1:50.

Images

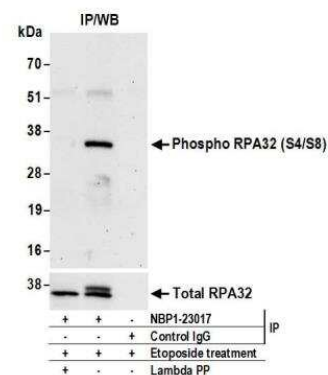
Western Blot: RPA2 [p Ser4, p Ser8] Antibody [NBP1-23017] - Detection of Human Phospho RPA32 (S4/S8) by western blot. Samples: Whole cell lysate (50 ug) from HeLa cells treated with 100 uM EPE (+) or mock treated (-). Antibodies: Affinity purified rabbit anti-Phospho RPA32 (S4/S8) antibody NBP1-23017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



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

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] (WB, 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] (IHC)

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] (WB, IP)

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)

Kumar S, Buon L, Talluri S et al. Integrated genomics and comprehensive validation reveal drivers of genomic evolution in esophageal adenocarcinoma *Communications biology* 2021-05-24 [PMID: 34031527]

Li H, Ma L, Bian X et al. FK228 sensitizes radioresistant small cell lung cancer cells to radiation *Clinical epigenetics* 2021-02-25 [PMID: 33632300] (Human)

Wang H, Zhang S et al. Synergistic lethality between PARP-trapping and alantolactone-induced oxidative DNA damage in homologous recombination-proficient cancer cells. *Oncogene* 2020-01-04 [PMID: 32029902] (ICC/IF, Human)

Bian X, Wang X, Zhang Q et al. The MYC Paralog-PARP1 Axis as a Potential Therapeutic Target in MYC Paralog-Activated Small Cell Lung Cancer *Front. Oncol.* 2020-10-08 [PMID: 33134168] (WB, Human)

Fagan-Solis KD, Simpson DA, Kumar RJ et al. A P53-Independent DNA Damage Response Suppresses Oncogenic Proliferation and Genome Instability *Cell Rep* 2020-02-04 [PMID: 32023457] (ICC/IF, Mouse)

Bartek J, Merchut-Maya JM, Maya-Mendoza A et al. Cancer cell stemness, responses to experimental genotoxic treatments, cytomegalovirus protein expression and DNA replication stress in pediatric medulloblastomas *Cell Cycle* 2020-02-13 [PMID: 32054408] (Human)

Qu J, Sun W, Zhong J et al. Phosphoglycerate mutase 1 regulates dNTP pool and promotes homologous recombination repair in cancer cells *J Cell Biol.* 2016-07-03 [PMID: 28122957] (KD, ICC/IF, WB, Human)

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



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Products Related to NBP1-23017

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-50878-0.05mg	Recombinant Human RPA2 His Protein

Limitations

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