

Product Datasheet

RPA70 Antibody - BSA Free

NB100-2204

Unit Size: 100 ul

Store at 4C. Do not freeze.

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NB100-2204

RPA70 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

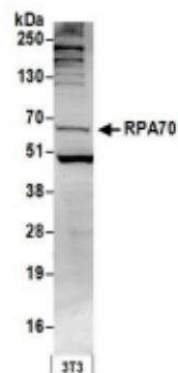
Host	Rabbit
Gene ID	6117
Gene Symbol	RPA1
Species	Human, Mouse
Reactivity Notes	Orangutan (100%).
Immunogen	The immunogen recognized by this antibody maps to a region between residues 350 and 400 of human replication protein A1, 70kDa using the numbering given in entry NP_002936.1 (GeneID 6117).

Product Application Details

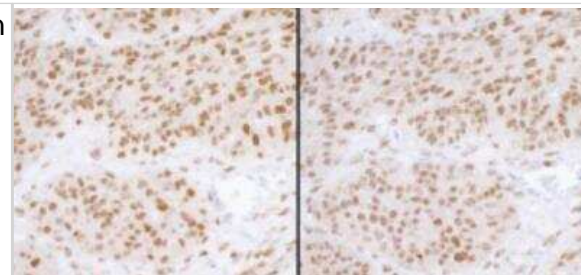
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:2000-1:10000, Immunohistochemistry 1:1000-1:5000, Immunoprecipitation 2-10 ug/mg lysate, Immunohistochemistry-Paraffin 1:1000-1:5000
Application Notes	Immunohistochemistry 1:1,000 - 1:5,000. Epitope retrieval with Tris-EDTA pH 9.0 is recommended for FFPE tissue sections.

Images

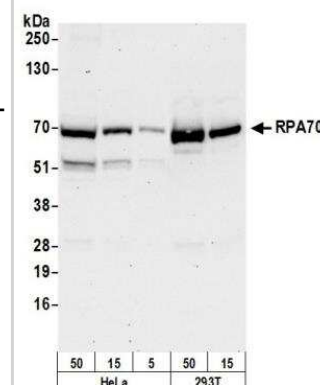
Western Blot: RPA70 Antibody [NB100-2204] - Whole cell lysate (50 ug) from NIH3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit antiRPA70 antibody used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.



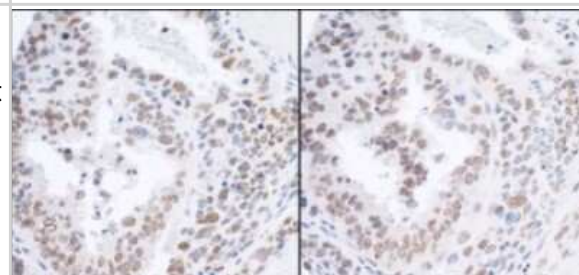
Immunohistochemistry-Paraffin: RPA70 Antibody [NB100-2204] - Human ovarian carcinoma. Antibodies: Affinity purified rabbit anti- RPA70 Cat. No. used at a dilution of 1:1,000 (1 ug/ml) (left) and used at a dilution of 1:5,000 (0.2ug/ml) (right). Detection: DAB



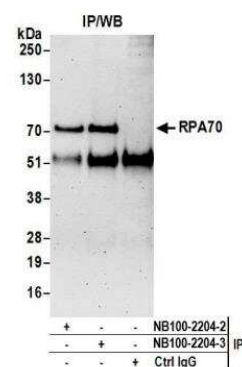
Western Blot: RPA70 Antibody [NB100-2204] - Detection of Human RPA70 by Western Blot. Samples: Whole cell lysate (5, 15 and 50 ug) from HeLa and (15 and 50 ug) from 293T cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-RPA70 antibody NB100-2204 used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.



Immunohistochemistry-Paraffin: RPA70 Antibody [NB100-2204] - Serial sections of mouse teratoma. Antibodies: Affinity purified rabbit anti-RPA70 Lot2 used at a dilution of 1:1,000 (1 ug/ml) (left) and Lot3 used at a dilution of 1:5,000 (0.2ug/ml) (right). Detection: DAB



Immunoprecipitation: RPA70 Antibody [NB100-2204] - Detection of human RPA70 by western blot of immunoprecipitates. Samples: Whole cell lysate (0.5 or 1.0 mg per IP reaction; 20% of IP loaded) from HeLa cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-RPA70 antibody NB100-2204 (lot NB100-2204-3) used for IP at 6 ug per reaction. RPA70 was also immunoprecipitated by a previous lot of this antibody (lot NB100-2204-2). For blotting immunoprecipitated RPA70, NB100-2204 was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 3 minutes.



Publications

Chatzidoukaki O, Stratigi K, Goulielmaki E Et al. R-loops trigger the release of cytoplasmic ssDNAs leading to chronic inflammation upon DNA damage Sci Adv 2021-11-19 [PMID: 34797720] (WB, Mouse)

Details:

Citation using the DyLight 550 version of this antibody.

Lindsey-Boltz LA, Reardon JT, Wold MS et al. In vitro analysis of the role of replication protein A (RPA) and RPA phosphorylation in ATR-mediated checkpoint signaling. J Biol Chem 2012-10-01 [PMID: 22948311]

Kemp MG, Reardon JT, Lindsey-Boltz LA et al. Mechanism of release and fate of excised oligonucleotides during nucleotide excision repair. J Biol Chem 2012-06-01 [PMID: 22573372]

Fisher LA, Bessho M, Wakasugi M et al. Role of interaction of XPF with RPA in nucleotide excision repair. J Mol Biol 2011-10-01 [PMID: 21875596]

Kemp MG, Lindsey-Boltz LA, Sancar A et al. The DNA damage response kinases DNA-dependent protein kinase (DNA-PK) and ataxia telangiectasia mutated (ATM) Are stimulated by bulky adduct-containing DNA. J Biol Chem 2011-06-01 [PMID: 21487018]

Thangavel S, Mendoza-Maldonado R, Tissino E et al. Human RECQ1 and RECQ4 helicases play distinct roles in DNA replication initiation. Mol Cell Biol 2010-03-01 [PMID: 20065033]

Robison JG, Elliott J, Dixon K et al. Replication protein A and the Mre11.Rad50.Nbs1 complex co-localize and interact at sites of stalled replication forks. J Biol Chem 2004-08-01 [PMID: 15180989]





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Products Related to NB100-2204

NBL1-15488	RPA70 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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