

# Product Datasheet

## ATR Antibody - BSA Free NB100-323

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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**NB100-323**

ATR Antibody - BSA Free

**Product Information**

<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C. Do not freeze.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.09% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	Tris-Citrate/Phosphate (pH 7.0 - 8.0)
<b>Target Molecular Weight</b>	301 kDa

**Product Description**

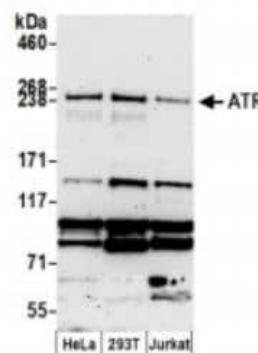
<b>Host</b>	Rabbit
<b>Gene ID</b>	545
<b>Gene Symbol</b>	ATR
<b>Species</b>	Human, Mouse
<b>Reactivity Notes</b>	Mouse reactivity reported in scientific literature (PMID:24356582).
<b>Immunogen</b>	The immunogen recognized by this antibody maps to a region between residues 400 and 450 of human Ataxia Telangiectasia and Rad3-related using the numbering given in entry NP_001175.1 (GeneID 545).

**Product Application Details**

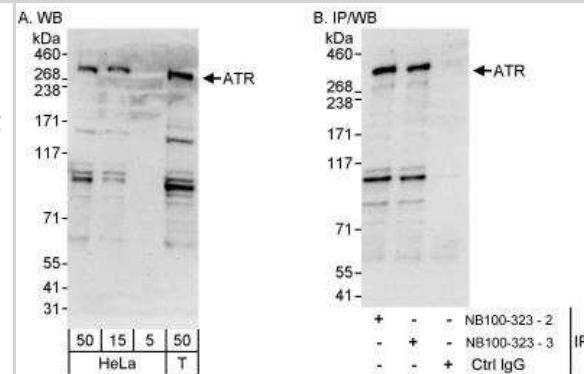
<b>Applications</b>	Western Blot, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1:2000- 1:10000, Immunoprecipitation 2-5 ug/mg lysate
<b>Application Notes</b>	ATR antibody validated for WB from a verified customer review.

## Images

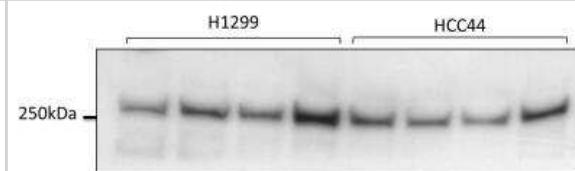
Western Blot: ATR Antibody [NB100-323] - Whole cell lysate (15 ug) from HeLa, HEK293T, and Jurkat cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-ATR antibody used for WB at 0.4 ug/ml. Detection: Chemiluminescence with an exposure time of 3 minutes.



Western Blot: ATR Antibody [NB100-323] - Whole cell lysate from HeLa (5, 15 and 50 ug for WB; 1 mg for IP, 20% of IP loaded) and 293T (T; 50 ug) cells. Antibodies: Affinity purified rabbit anti-ATR antibody NB100-323 lot 3 used for WB at 0.1 ug/ml (A) and 1 ug/ml (B) and used for IP at 3 ug/mg lysate (B). ATR was also immunoprecipitated by a previous lot (lot 2) of this antibody. Detection: Chemiluminescence with exposure times of 30 seconds (A) and 10 seconds (B).



Western Blot: ATR Antibody [NB100-323] - H1299 (human lung cancer cells) and HCC 44 (human liver cancer cells). Antibody at 1:500. Image submitted by a verified customer review.



## Publications

Hung PJ, Johnson B, Chen BR et al. MRI Is a DNA Damage Response Adaptor during Classical Non-homologous End Joining. *Mol. Cell.* 2018-07-19 [PMID: 30017584]

Morales AJ, Carrero JA, Hung PJ et al. A type I IFN-dependent DNA damage response regulates the genetic program and inflammasome activation in macrophages. *Elife* 2017-03-31 [PMID: 28362262] (WB)

Boichuk S, Hu L, Hein J, Gjoerup OV. Multiple DNA damage signaling and repair pathways deregulated by simian virus 40 large T antigen. *J Virol* 2010-08-01 [PMID: 20519379]

Min W, Bruhn C, Grigaravicius et al. Poly(ADP-ribose) binding to Chk1 at stalled replication forks is required for S-phase checkpoint activation. *Nat Commun* 2013-12-20 [PMID: 24356582] (WB, Mouse)

Shao L, Fujii H, Colmegna I et al. Deficiency of the DNA repair enzyme ATM in rheumatoid arthritis. *J Exp Med*;206(6):1435-1449. 2009-01-01 [PMID: 19451263]

Agarwal, C, Tyagi, A, Agarwal, R. Gallic acid causes inactivating phosphorylation of cdc25A/cdc25C-cdc2 via ATM-Chk2 activation, leading to cell cycle arrest, and induces apoptosis in human prostate carcinoma DU145 cells. *Mol Cancer Ther* 5(12):3294-302. 2006-12-01 [PMID: 17172433]



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### Products Related to NB100-323

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-76547PEP	ATR Recombinant Protein Antigen

### 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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