

# Product Datasheet

## ATR Antibody (2B5) - Azide and BSA Free NB100-308

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NB100-308**

ATR Antibody (2B5) - Azide and BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	2B5
Preservative	No Preservative
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	317 kDa

Product Description	
Host	Mouse
Gene ID	545
Gene Symbol	ATR
Species	Human, Mouse
Immunogen	Recombinant fragment, corresponding to amino acids 710-1100 of Human ATR.

Product Application Details	
Applications	Western Blot, Functional, Immunocytochemistry/ Immunofluorescence, In vitro assay, Immunoprecipitation, Knockout Validated
Recommended Dilutions	Western Blot 1:500-1:3000, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Functional, In vitro assay, Knockout Validated
Application Notes	Functional and IP usages reported in (PMID:18202016). Knockout validation (PMID: 31757956). Use In vitro assay reported in scientific literature (PMID: 18202016). IP, Functional, ICC/IF- Assay dependent.

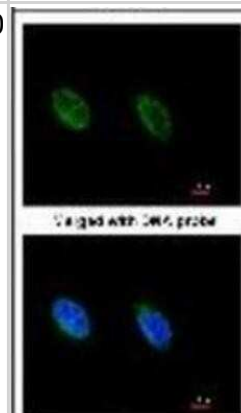


## Images

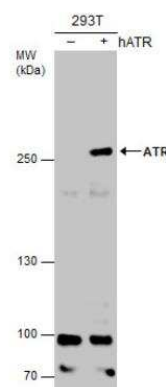
Western Blot: ATR Antibody (2B5) [NB100-308] - Human Raji whole cell extract. The HRP-conjugated anti-mouse IgG antibody (NBP2-19382) was used to detect the primary antibody.



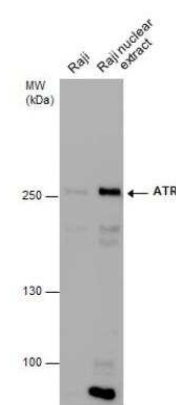
Immunocytochemistry/Immunofluorescence: ATR Antibody (2B5) [NB100-308] - Analysis of HeLa, using antibody at 1:100 dilution.



Western Blot: ATR Antibody (2B5) [NB100-308] - Non-transfected (-) and transfected (+) 293T whole cell extracts (30 ug) were separated by 5% SDS-PAGE, and the membrane was blotted with ATR antibody [2B5] diluted at 1:500.



Western Blot: ATR Antibody (2B5) [NB100-308] - Raji whole cell and nuclear extracts (30 ug) were separated by 5% SDS-PAGE, and the membrane was blotted with ATR antibody diluted at 1:500.



## Publications

Zeng F, Parker K, Zhan Y et al. Upregulated DNA Damage-Linked Biomarkers in Parkinson's Disease Model Mice ASN Neuro 2023-01-23 [PMID: 36683340] (Western Blot)

Uchida C, Niida H, Sakai S et al. p130RB2 positively contributes to ATR activation in response to replication stress via the RPA32-ETAA1 axis Biochimica et biophysica acta. Molecular cell research 2023-05-17 [PMID: 37201767]

Chakraborty P, Hiom K DHX9-dependent recruitment of BRCA1 to RNA promotes DNA end resection in homologous recombination Nature communications 2021-07-05 [PMID: 34226554] (WB)

Kim W, Zhao F, Wu R et al. ZFP161 regulates replication fork stability and maintenance of genomic stability by recruiting the ATR/ATRIP complex Nat Commun 2019-11-22 [PMID: 31757956] (KO, WB, Mouse)

Oku T, Nakano M, Kaneko Y et al. Constitutive turnover of phosphorylation at Thr-412 of human p57/coronin-1 regulates the interaction with actin. J Biol Chem 2012-12-14 [PMID: 23100250] (Human)

Ha K, Fiskus W, Rao R et al. Hsp90 inhibitor-mediated disruption of chaperone association of ATR with hsp90 sensitizes cancer cells to DNA damage. Mol Cancer Ther 2011-07-01 [PMID: 21566061] (IP, Func, Human)

Chen Y, Chen CF, Riley DJ et al. Nek1 kinase functions in DNA damage response and checkpoint control through a pathway independent of ATM and ATR. Cell Cycle 2011-02-01 [PMID: 21301226] (Func, IP, Human)

Zuco V, Benedetti V, Zunino F. ATM- and ATR-mediated response to DNA damage induced by a novel camptothecin, ST1968. Cancer Lett 2010-06-01 [PMID: 20042274] (IP, Func, Human)

Cui B, Johnson SP, Bullock N et al. Bifunctional DNA alkylator 1,3-bis(2-chloroethyl)-1-nitrosourea activates the ATR-Chk1 pathway independently of the mismatch repair pathway. Mol Pharmacol 2009-06-01 [PMID: 19261750] (Func, IP, Human)

Kulkarni A, Das KC. Differential roles of ATR and ATM in p53, Chk1, and histone H2AX phosphorylation in response to hyperoxia: ATR-dependent ATM activation. Am J Physiol Lung Cell Mol Physiol 2008-05-01 [PMID: 18344416] (Func, IP, Human)

Liu X, Matsuda A, Plunkett W. Ataxia-telangiectasia and Rad3-related and DNA-dependent protein kinase cooperate in G2 checkpoint activation by the DNA strand-breaking nucleoside analogue 2'-C-cyano-2'-deoxy-1-beta-D-arabino-pentofuranosylcytosine. Mol Cancer Ther 2008-01-01 [PMID: 18202016] (Func, IP, Human)

Katsuki Y, Nakada S, Yokoyama T et al. Caffeine yields aneuploidy through asymmetrical cell division caused by misalignment of chromosomes. Cancer Sci 2008-08-01 [PMID: 18754864] (Func, IP, Human)

More publications at <http://www.novusbio.com/NB100-308>





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### **Products Related to NB100-308**

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NB820-59466	Raji Whole Cell Lysate
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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### **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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