ATR antibody

Cat. No. GTX128146

Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Applications	WB, ICC/IF, IHC-P, IP
Reactivity	Human, Mouse

References (9)
Package
100 µl, 25 µl

PRODUCT

Summary

ATR antibody detects the serine/threonine-protein kinase ATR (Ataxia Telangiectasia and Rad3-related protein) (also known as FRAP-related protein 1 (FRP1)). ATR (301 kDa) is a key component of the DNA damage response machinery and is activated by ssDNA, leading to cell cycle arrest while DNA damage is repaired. It also plays a critical role in stabilizing the genome during DNA replication by preventing premature onset of mitosis. This ATR antibody is a cited rabbit polyclonal validated for multiple applications.

Applications

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
WB	1:500-1:3000
ICC/IF	1:100-1:5000
IHC-P	1:100-1:1000
IP	1:100-1:500

Not tested in other applications.

Calculated MW	301 kDa. (Note)
Product Note	Based on internal testing results, this antibody can detect total ATR and phospho-ATR (Thr1989). KO/KD validation is based on published data (PMID: 31114877).

Properties

Form	Liquid
Buffer	PBS, 1% BSA, 20% Glycerol
Preservative	0.025% ProClin 300
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4ºC. For long-term storage, aliquot and store at -20ºC or below. Avoid multiple freeze-thaw cycles.
Concentration	1 mg/ml (Please refer to the vial label for the specific concentration.)

For full product information, images and publications, please visit our website.

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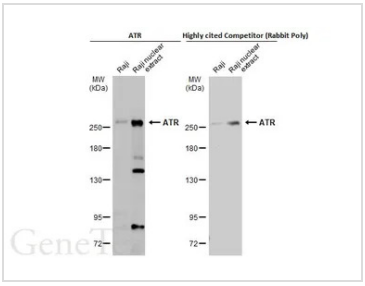
Immunogen	Carrier-protein conjugated synthetic peptide encompassing a sequence within the C-terminus region of human ATR. The exact sequence is proprietary.
Purification	Purified by antigen-affinity chromatography.
Conjugation	Unconjugated
Note	For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption. Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

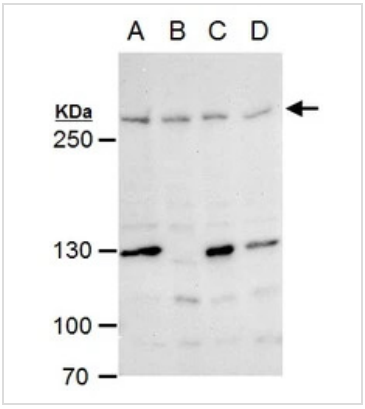
DATA IMAGES



GTX128146 WB Image

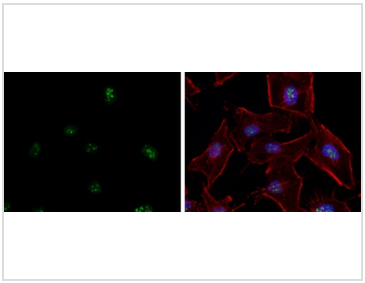
Raji whole cell and nuclear extracts (30 µg) were separated by 5% SDS-PAGE, and the membranes were blotted with ATR antibody (GTX128146) diluted at 1:500 and competitor's antibody (Highly cited Competitor) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.

*The competitor is not affiliated with GeneTex and does not endorse this product.



GTX128146 WB Image

ATR antibody detects ATR protein by Western blot analysis.
A. 30 µg 293T whole cell extract
B. 30 µg A431 whole cell extract
C. 30 µg HeLa whole cell extract
D. 30 µg HepG2 whole cell extract
5 % SDS-PAGE
ATR antibody (GTX128146) dilution: 1:500



GTX128146 ICC/IF Image

ATR antibody detects ATR protein at nucleolus by immunofluorescent analysis.
Sample: HeLa cells were fixed in 4% paraformaldehyde at RT for 15 min.
Green: ATR protein stained by ATR antibody (GTX128146) diluted at 1:5000.
Red: phalloidin, a cytoskeleton marker, diluted at 1:200.
Blue: Hoechst 33342 staining.
Scale bar = 10 µm.

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