

## Datasheet: AHP384

<b>Description:</b>	RABBIT ANTI ATR (aa2381-2644)
<b>Specificity:</b>	ATR (aa2381-2644)
<b>Other names:</b>	FRP1
<b>Format:</b>	Serum
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.1 ml

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation		▪		
Western Blotting	▪			1/2000

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

### Target Species

Human

### Species Cross Reactivity

Reacts with: Mouse, Hamster

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

Serum - liquid

### Antiserum Preparation

Antisera to human ATR peptide were raised by repeated immunisation of rabbits with highly purified antigen.

<b>Preservative Stabilisers</b>	0.09% Sodium Azide
<b>Immunogen</b>	Human ATR peptide, amino acids 2381-2644.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q13535</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">545</a>    ATR    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	FRP1
<b>RRID</b>	AB_321185
<b>Specificity</b>	<p><b>Rabbit anti peptide E antibody</b> recognizes the ATR (Ataxia telangiectasia and rad 3 related) protein, a ~300 kD protein kinase reported to have a role in recognising and responding to DNA strand interruptions during meiosis.</p> <p>Rabbit anti peptide E antibody cross-reacts with the related DNA-Pkcs.</p>
<b>References</b>	<ol style="list-style-type: none"> <li>Keegan, K.S. <i>et al.</i> (1996) The Atr and Atm protein kinases associate with different sites along meiotically pairing chromosomes. <a href="#">Genes and Development 10: 2423-2437.</a></li> <li>McNees, C.J. <i>et al.</i> (2010) ATR suppresses telomere fragility and recombination but is dispensable for elongation of short telomeres by telomerase. <a href="#">J. Cell Biol. 188: 639-52</a></li> <li>Yan, T. <i>et al.</i> (2004) CHK1 and CHK2 are differentially involved in mismatch repair-mediated 6-thioguanine-induced cell cycle checkpoint responses. <a href="#">Mol Cancer Ther. 3: 1147-57.</a></li> <li>Cuadrado, M. <i>et al.</i> (2006) ATM regulates ATR chromatin loading in response to DNA double-strand breaks. <a href="#">J Exp Med. 203: 297-303.</a></li> <li>Zinkel, S.S. <i>et al.</i> (2005) A role for proapoptotic BID in the DNA-damage response. <a href="#">Cell. 122: 579-91.</a></li> <li>Murga, M. <i>et al.</i> (2009) A mouse model of ATR-Seckel shows embryonic replicative stress and accelerated aging. <a href="#">Nat Genet. 41: 891-8.</a></li> <li>Lewis, K.A. <i>et al.</i> (2005) Heterozygous ATR Mutations in Mismatch Repair-Deficient Cancer Cells Have Functional Significance <a href="#">Cancer Res. 65: 7091-5.</a></li> <li>Pontano, L.L. <i>et al.</i> (2008) Genotoxic stress-induced cyclin D1 phosphorylation and proteolysis are required for genomic stability. <a href="#">Mol Cell Biol. 28: 7245-58.</a></li> <li>Brown, E.J. and Baltimore, D. (2003) Essential and dispensable roles of ATR in cell cycle arrest and genome maintenance. <a href="#">Genes Dev. 17: 615-28.</a></li> <li>Park, B.J. <i>et al.</i> (2006) AIMP3 haploinsufficiency disrupts oncogene-induced p53 activation and genomic stability. <a href="#">Cancer Res. 66: 6913-8.</a></li> <li>López-Contreras, A.J. <i>et al.</i> (2012) An extra allele of Chk1 limits oncogene-induced replicative stress and promotes transformation. <a href="#">J Exp Med. 209 (3): 455-61.</a></li> </ol>
<b>Storage</b>	Store at +4°C for one month or at -20°C for longer.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10081 available at: 10081: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10081.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10081.pdf</a>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)  
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

### Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
'M376967:210212'

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