

Datasheet: AHP384

Description:	RABBIT ANTI ATR (aa2381-2644)
Specificity:	ATR (aa2381-2644)
Other names:	FRP1
Format:	Serum
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	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.
Product Form	Serum - liquid

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

Preservative Stabilisers	0.09% Sodium Azide
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Immunogen	Human ATR peptide, amino acids 2381-2644.
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External Database Links

UniProt:
[Q13535](#) [Related reagents](#)

Entrez Gene:

Synonyms	FRP1
Specificity	Rabbit anti peptide E antibody 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. Rabbit anti peptide E antibody cross-reacts with the related DNA-Pkcs.
References	1. Keegan, K.S. <i>et al.</i> (1996) The Atr and Atm protein kinases associate with different sites along meiotically pairing chromosomes. Genes and Development 10: 2423-2437. 2. McNees, C.J. <i>et al.</i> (2010) ATR suppresses telomere fragility and recombination but is dispensable for elongation of short telomeres by telomerase. J. Cell Biol. 188: 639-52 3. Yan, T. <i>et al.</i> (2004) CHK1 and CHK2 are differentially involved in mismatch repair-mediated 6-thioguanine-induced cell cycle checkpoint responses. Mol Cancer Ther. 3: 1147-57. 4. Cuadrado, M. <i>et al.</i> (2006) ATM regulates ATR chromatin loading in response to DNA double-strand breaks. J Exp Med. 203: 297-303. 5. Zinkel, S.S. <i>et al.</i> (2005) A role for proapoptotic BID in the DNA-damage response. Cell. 122: 579-91. 6. Murga, M. <i>et al.</i> (2009) A mouse model of ATR-Seckel shows embryonic replicative stress and accelerated aging. Nat Genet. 41: 891-8. 7. Lewis, K.A. <i>et al.</i> (2005) Heterozygous ATR Mutations in Mismatch Repair-Deficient Cancer Cells Have Functional Significance Cancer Res. 65: 7091-5. 8. Pontano, L.L. <i>et al.</i> (2008) Genotoxic stress-induced cyclin D1 phosphorylation and proteolysis are required for genomic stability. Mol Cell Biol. 28: 7245-58. 9. Brown, E.J. and Baltimore, D. (2003) Essential and dispensable roles of ATR in cell cycle arrest and genome maintenance. Genes Dev. 17: 615-28. 10. Park, B.J. <i>et al.</i> (2006) AIMP3 haploinsufficiency disrupts oncogene-induced p53 activation and genomic stability. Cancer Res. 66: 6913-8. 11. López-Contreras, A.J. <i>et al.</i> (2012) An extra allele of Chk1 limits oncogene-induced replicative stress and promotes transformation. J Exp Med. 209 (3): 455-61.
Storage	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.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation available at: Material Safety Datasheet Documentation #10081 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10081.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Sheep Anti Rabbit IgG (STAR54...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)

Recommended Useful Reagents

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

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