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## anti-ATR antibody (C-Term)



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Overview			
Quantity:	100 μL		
Target:	ATR		
Binding Specificity:	C-Term		
Reactivity:	Human		
Host:	Rabbit		
Clonality:	Polyclonal		
Conjugate:	This ATR antibody is un-conjugated		
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunocytochemistry (ICC),		
	Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF)		
Product Details			
Immunogen:	Carrier-protein conjugated synthetic peptide encompassing a sequence within the C-terminus		
	region of human ATR. The exact sequence is proprietary.		
Isotype:	IgG		
Isotype:  Cross-Reactivity:			
	IgG		
Cross-Reactivity:	IgG Human, Mouse		
Cross-Reactivity: Purification:	IgG  Human, Mouse  Purified by antigen-affinity chromatography.		

## **Target Details**

Alternative Name:	ATR serine/threonine kinase (ATR Products)		
Background:	Synonyms: ATR serine/threonine kinase , FCTCS , FRP1 , MEC1 , SCKL , SCKL1		
	Background: The protein encoded by this gene belongs the PI3/PI4-kinase family, and is most		
	closely related to ATM, a protein kinase encoded by the gene mutated in ataxia telangiectasia.		
	This protein and ATM share similarity with Schizosaccharomyces pombe rad3, a cell cycle		
	checkpoint gene required for cell cycle arrest and DNA damage repair in response to DNA		
	damage. This kinase has been shown to phosphorylate checkpoint kinase CHK1, checkpoint		
	proteins RAD17, and RAD9, as well as tumor suppressor protein BRCA1. Mutations of this gene		
	are associated with Seckel syndrome. An alternatively spliced transcript variant of this gene has		
	been reported, however, its full length nature is not known. Transcript variants utilizing		
	alternative polyA sites exist. [provided by RefSeq]		
Molecular Weight:	301 kDa		
Gene ID:	545		
UniProt:	Q13535		
Pathways:	p53 Signaling, Apoptosis, DNA Damage Repair, Positive Regulation of Response to DNA		
	Damage Stimulus		
Application Details			
Application Notes:	WB: 1:500-1:3000. ICC/IF: 1:100-1:5000. IHC-P: 1:100-1:1000. IP: 1:100-1:500. Optimal		
	dilutions/concentrations should be determined by the researcher. Not tested in other		
	applications.		
Comment:	Positive Control: 293T , A431 , HeLa , HepG2 , Raji nuclear extract Validation: Comparison,		
	KO/KD, Orthogonal		
Restrictions:	For Research Use only		
Handling			
Format:	Liquid		
Concentration:	1 mg/mL		
Buffer:	1XPBS pH 7, 1 % BSA, 20 % Glycerol, 0.025 % ProClin 300		
Preservative:	ProClin		
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be		

## Handling

	handled by trained staff only.	
Storage:	4 °C,-20 °C	
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.	