# antibodies

# Datasheet for ABIN401401 anti-ATR antibody (Internal Region)

Image



#### Overview

Quantity:	0.1 mg
Target:	ATR
Binding Specificity:	Internal Region
Reactivity:	Human, Mouse, Monkey, Rat, Xenopus laevis, Dog, Fish
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATR antibody is un-conjugated
Application:	Western Blotting (WB), Enzyme Immunoassay (EIA)

### Product Details

Immunogen:	Synthetic peptide corresponding to an internal region of human ATR protein
Isotype:	lgG
Specificity:	This antibody is specific for ATR protein.
Cross-Reactivity (Details):	Species reactivity (expected):Mouse, Rat, Monkey, Canine, Fish, Xenopus. Species reactivity (tested):Human.
Purification:	Affinity chromatography
Target Details	
Target:	ATR
Alternative Name:	ATR / FRP1 (ATR Products)

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Target Details	
Background:	Ataxia Telangiectasia Mutated (ATM) and Rad 3-related protein (ATR) is a phosphatidylinositol
	kinase (PK)-related kinase which functions in response to DNA damage and repair as well as at
	DNA replication checkpoints during the cell cycle. ATR activates checkpoint signaling upon
	genotoxic stresses, such as ionizing radiation (IR), ultraviolet light (UV), or DNA replication
	stalling, thereby acting as a DNA damage sensor. ATR is a member of the DNA-PK kinase
	family and is closely related to ATM and DNAPK for which DNA stimulates the observed kinase
	activity. Chromosomal remodeling proteins have also been reported to associate with ATR
	complexes, including histone deacetylases (HDAC1, HDAC2 and CHD4). ATR is known to
	phosphorylate BRCA1, CHEK1, MCM2, RAD17, RPA2, SMC1 and TP53/p53 which collectively
	inhibit DNA replication and mitosis and promote DNA repair, recombination and apoptosis. ATR
	is a nuclear protein, but can also be found in PML nuclear bodies in certain cell types. ATR is
	recruited to chromatin during Sphase and redistributes to discrete nuclear foci upon DNA
	damage, hypoxia or replication fork stalling.Synonyms: Ataxia telangiectasia and Rad3-related
	protein, FRAP-related protein 1, Serine/threonine-protein kinase ATR
Gene ID:	545
NCBI Accession:	NP_001175
UniProt:	Q13535
Pathways:	p53 Signaling, Apoptosis, DNA Damage Repair, Positive Regulation of Response to DNA
	Damage Stimulus
Application Details	
Application Notes:	ELISA: 1/15,000 - 1/70,000. Western Blot: 1/1,000 - 1/5,000.
	Other applications not tested.
	Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only
Handling	
Concentration:	1.28 mg/mL (by UV absorbance at 280 nm)
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 containing 0.01 % (w/v) Sodium
	Azide
Preservative:	Sodium azide

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This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Precaution of Use:

## Handling

	should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	-20 °C

#### Images

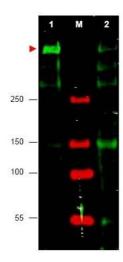


Image 1.