

DATASHEET

ATR Rabbit Polyclonal Antibody

CAT. NO. APA15135

KEY FEATURES

Target	ATR	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

BACKGROUND

Serine/threonine protein kinase which 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 , ultraviolet light (UV), or DNA replication stalling, thereby acting as a DNA damage sensor . Recognizes the substrate consensus sequence [ST]-Q . Phosphorylates BRCA1, CHEK1, MCM2, RAD17, RBBP8, RPA2, SMC1 and p53/TP53, which collectively inhibit DNA replication and mitosis and promote DNA repair, recombination and apoptosis . Phosphorylates 'Ser-139' of histone variant H2AX at sites of DNA damage, thereby regulating DNA damage response mechanism . Required for FANCD2 ubiquitination .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:2000
----	----------------

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

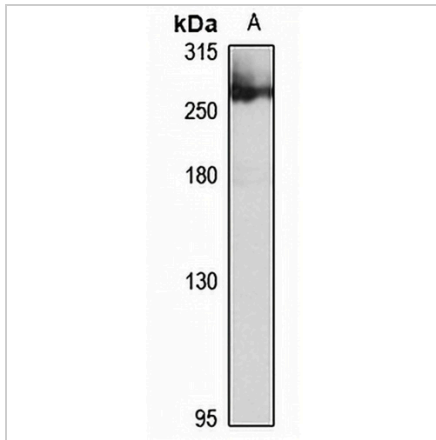
Description	Rabbit polyclonal antibody to ATR
Specificity	Recognizes endogenous levels of ATR protein
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic peptide of human ATR. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 294; Observed: 301 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	FRP1; Serine/threonine-protein kinase ATR; Ataxia telangiectasia and Rad3-related protein; FRAP-related protein 1
Gene Symbol	ATR
Entrez Gene	545(Human)
SwissProt	Q13535(Human); Q9JJK8(Mouse)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

DATASHEET**ATR Rabbit Polyclonal Antibody**

CAT. NO. APA15135

DATA

Western blot analysis of ATR expression in NCIH460 (A) whole cell lysates. (Predicted band size: 294; 297; 301 kD; Observed band size: 301 kD)

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.