

Catalog Number	PA-RR 000013
Batch Number(s):	PA-B-0001-RR-ATR,p
Product Name	Rabbit anti-Human ATR,p (Threonine 1989) Recombinant Monoclonal (BLR032P)

PRODUCT SPECIFICATION

Host	Rabbit
Colonality	Recombinant Monoclonal
Subclass	IgG
Immunogen	Synthetic peptide corresponding to Human ATR(Threonine 1989), Uniprot Q13535 and Gene ID 545
Conjugate	Unconjugated
Form	Liquid
Concentration	1.00 mg/mL
Purification	Affinity chromatography
Storage Buffer	Phosphate Buffer Saline, 10mM, pH 7.4
Preservative	Azide
Cryopreservative	Glycerol
Storage conditions	4°C. Avoid freeze/thaw cycles

APPLICATIONS

Western Blotting	1:250-1:1000
Immunocytochemistry / Microscopy	1:250-1:1000

PRODUCT DESCRIPTION

ATR is activated at RPA-coated single-stranded DNA during replication stress and phosphorylates CHK1 to initiate checkpoint signaling, stabilize stalled replication forks, and coordinate DNA repair. ATR-ATRIP-TOPBP1-mediated CHK1 phosphorylation serves as a key marker of active DNA damage response and replication stress signaling.

Uniprot ID	Q13535
Gene ID	545
Gene Symbol	ATR,p
Gene	ataxia telangiectasia and Rad3-related protein; FCTCS; FRAP-related protein 1; FRAP-related protein-1; FRP1; MEC1; MEC1, mitosis entry checkpoint 1,
Aliases	homolog; SCKL; SCKL1; serine/threonine-protein kinase ATR

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