

Catalog Number	PA-RR 000008
Batch Number(s):	PA-B-0001-RR-ATM
Product Name	Rabbit anti-Human ATM Recombinant Monoclonal (BLR021N)

PRODUCT SPECIFICATION

Host	Rabbit
Colonicity	Recombinant Monoclonal
Subclass	IgG
Immunogen	Immunogen was a peptide in region between residue 3022 and 3072, referencing both Uniprot ID Q13315 and Gene ID 472
Conjugate	Unconjugated
Form	Liquid
Concentration	1.0 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	1:500
Immunocytochemistry / Microscopy	1:250

PRODUCT DESCRIPTION

ATM (ataxia-telangiectasia mutated) is a key kinase in DNA double-strand break repair via homologous recombination (HR). Activated by DNA damage, ATM phosphorylates targets like BRCA1 and RAD51 to promote repair. BRCA1 helps load RAD51 onto single-stranded DNA, a vital HR step. ATM also regulates cell cycle checkpoints and can trigger apoptosis, preserving genomic integrity and preventing mutation accumulation linked to cancer.

Uniprot ID	Q13315
Gene ID	472
Gene Symbol	ATM
Gene Aliases	AT mutated; A-T mutated; AT1; ATA; ataxia telangiectasia mutated; ATC; ATD; ATDC; ATE; serine-protein kinase ATM; TEL1; TEL1, telomere maintenance 1, homolog; TELO1

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