

Catalog Number	PA-RR 000018
Batch Number(s):	PA-B-0001-RR-MRE11
Product Name	Rabbit anti-Human MRE11 Recombinant Monoclonal (BLR042P)

PRODUCT SPECIFICATION

Host	Rabbit
Colonality	Recombinant Monoclonal
Subclass	IgG
Immunogen	MRE11 Protein in a region between residue 402 and 452, referencing both Uniprot ID P49959 and Gene ID 4361
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

MRE11 is a key component of the MRN (MRE11-RAD50-NBS1) complex, which detects DNA double-strand breaks and activates ATM signaling. Its nuclease activity processes DNA ends and initiates resection, generating 3' single-stranded DNA required for homologous recombination and RAD51-mediated repair. MRE11 also contributes to cell-cycle checkpoint activation, telomere maintenance, DNA repair fidelity, and genome stability.

Uniprot ID	P49959
Gene ID	4361
Gene Symbol	MRE11
Gene Aliases	ATLD; HNGS1; MRE11A; MRE11B

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