

Product Name: Mre11 (9C7) Rabbit Monoclonal Antibody
Catalog #: AMRe14083

Summary

Production Name	Mre11 (9C7) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% BSA.
Purification	Affinity purification

Immunogen

Gene Name	MRE11
Alternative Names	MRE11 homolog 1; Meiotic recombination 11 homolog A; MRE11 homolog A; MRE11A; HNGS1; MRE11;
Gene ID	4361.0
SwissProt ID	P49959.Recombinant protein of human Mre11

Application

Dilution Ratio	WB: 1:1000
Molecular Weight	81kDa

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Background

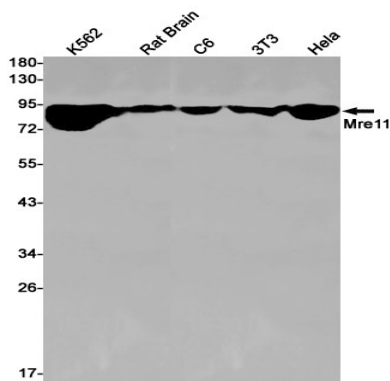
DNA double-strand breaks are generated by ionizing radiation and endogenously produced radicals, and they often are repaired through the RAD52 homologous recombination pathway. The complex possesses single-strand endonuclease activity and double-strand-specific 3'-5' exonuclease activity, which are provided by MRE11A. RAD50 may be required to bind DNA ends and hold them in close proximity. Component of the MRN complex, which plays a central role in double-strand break (DSB) repair, DNA recombination, maintenance of telomere integrity and meiosis (PubMed:[9651580](http://www.uniprot.org/citations/9651580), PubMed:[9590181](http://www.uniprot.org/citations/9590181), PubMed:[9705271](http://www.uniprot.org/citations/9705271), PubMed:[11741547](http://www.uniprot.org/citations/11741547), PubMed:[29670289](http://www.uniprot.org/citations/29670289)). The complex possesses single-strand endonuclease activity and double-strand-specific 3'-5' exonuclease activity, which are provided by MRE11 (PubMed:[9651580](http://www.uniprot.org/citations/9651580), PubMed:[9590181](http://www.uniprot.org/citations/9590181), PubMed:[9705271](http://www.uniprot.org/citations/9705271), PubMed:[11741547](http://www.uniprot.org/citations/11741547), PubMed:[29670289](http://www.uniprot.org/citations/29670289)). RAD50 may be required to bind DNA ends and hold them in close proximity (PubMed:[9651580](http://www.uniprot.org/citations/9651580), PubMed:[9590181](http://www.uniprot.org/citations/9590181), PubMed:[9705271](http://www.uniprot.org/citations/9705271), PubMed:[11741547](http://www.uniprot.org/citations/11741547), PubMed:[29670289](http://www.uniprot.org/citations/29670289)). This could facilitate searches for short or long regions of sequence homology in the recombining DNA templates, and may also stimulate the activity of DNA ligases and/or restrict the nuclease activity of MRE11 to prevent nucleolytic degradation past a given point (PubMed:[9651580](http://www.uniprot.org/citations/9651580), PubMed:[9590181](http://www.uniprot.org/citations/9590181), PubMed:[9705271](http://www.uniprot.org/citations/9705271), PubMed:[11741547](http://www.uniprot.org/citations/11741547), PubMed:[29670289](http://www.uniprot.org/citations/29670289), PubMed:[30612738](http://www.uniprot.org/citations/30612738)). The complex may also be required for DNA damage signaling via activation of the ATM kinase (PubMed:[15064416](http://www.uniprot.org/citations/15064416)). In telomeres the MRN complex may modulate t-loop formation (PubMed:[10888888](http://www.uniprot.org/citations/10888888)).

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Research Area

Image Data



Western blot detection of Mre11 in K562,Rat Brain,C6,3T3,Hela cell lysates using Mre11 antibody(1:1000 diluted).

Note

For research use only.