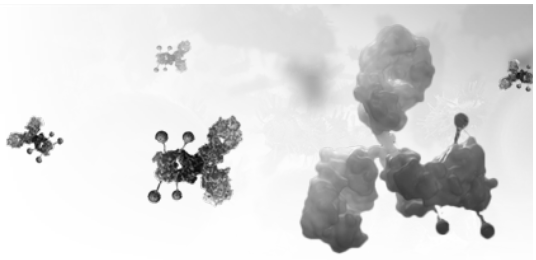

MRE11A blocking peptide (CDBP5763)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	This gene encodes a nuclear protein involved in homologous recombination, telomere length maintenance, and DNA double-strand break repair. By itself, the protein has 3' to 5' exonuclease activity and endonuclease activity. The protein forms a complex with the RAD50 homolog; this complex is required for nonhomologous joining of DNA ends and possesses increased single-stranded DNA endonuclease and 3' to 5' exonuclease activities. In conjunction with a DNA ligase, this protein promotes the joining of noncomplementary ends in vitro using short homologies near the ends of the DNA fragments. This gene has a pseudogene on chromosome 3. Alternative splicing of this gene results in two transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]
Conjugate	Unconjugated
Applications	Used as a blocking peptide in immunoblotting applications.
Format	Liquid
Concentration	200 µg/mL
Size	0.05 mg
Preservative	None
Storage	-20°C

GENE INFORMATION

Gene Name	MRE11A MRE11 meiotic recombination 11 homolog A (S. cerevisiae) [Homo sapiens (human)]
Official Symbol	MRE11A

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

Synonyms	MRE11A; MRE11 meiotic recombination 11 homolog A (S. cerevisiae); ATLD; HNGS1; MRE11; MRE11B; double-strand break repair protein MRE11A; AT-like disease; MRE11 homolog 1; MRE11 homolog A; endo/exonuclease Mre11; meiotic recombination 11 homolog 1; meiotic recombination 11 homolog A; DNA recombination and repair protein
Entrez Gene ID	4361
mRNA Refseq	NM_005590
Protein Refseq	NP_005581
UniProt ID	P49959
Pathway	Assembly of the RAD50-MRE11-NBS1 complex at DNA double-strand breaks; BARD1 signaling events; BRCA1-associated genome surveillance complex (BASC); Cell Cycle; Cellular Senescence; Cellular responses to stress; Cytosolic sensors of pathogen-associated DNA; DNA Damage/Telomere Stress Induced Senescence
Function	3'-5' exonuclease activity; contributes_to ATP-dependent DNA helicase activity; contributes_to DNA binding; double-stranded DNA binding; endodeoxyribonuclease activity; endonuclease activity; manganese ion binding; nuclease activity; protein C-terminus binding; protein binding; single-stranded DNA endodeoxyribonuclease activity

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221