Recombinant Human MRE11A Protein, GST-tagged

Cat. No. MRE11A-5537H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MRE11A full-length ORF (AAH05241, 1 a.a. - 206 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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
Molecular Mass	48.4 kDa
AA Sequence	MSTADALDDENTFKILVATDIHLGFMEKDAVRGNDTFVTLDEILRLAQENEVDFILLG GDLFHENKPSRKTLHTCLELLRKYCMGDRPVQFEILSDQSVNFGFSKFPWVNYQDG NLNISIPVFSIHGNHDDPTGADALCALDILSCAGFVNHFGRSMSVEKIDISPVLLQKGR TKIALYGLGSIPDERLYRMFVNKKVTMLRPKED

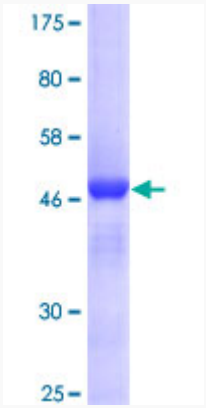
Tel: 1-631-559-9269 1-516-512-3133
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Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	MRE11A MRE11 meiotic recombination 11 homolog A (S. cerevisiae) [Homo sapiens]
Official Symbol	MRE11A
Synonyms	MRE11A; MRE11 meiotic recombination 11 homolog A (S. cerevisiae); meiotic recombination (S. cerevisiae) 11 homolog A , MRE11; double-strand break repair protein MRE11A; AT like disease; ATLD; 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; HNGS1; MRE11; MRE11B;
Gene ID	4361
mRNA Refseq	NM_005590
Protein Refseq	NP_005581

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MIM	600814
UniProt ID	P49959
Quality Control Testing:	 12.5% SDS-PAGE Stained with Coomassie Blue.

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