

Human Double-Strand Break Repair Protein MRE11A (MRE11A) ELISA Kit | MRE11A elisa kit

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CATALOG # AAA331697	REACTIVITY Human
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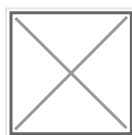
PRODUCT SYNONYMS

Double-Strand Break Repair Protein MRE11A (MRE11A); Human Double-Strand Break Repair Protein MRE11A (MRE11A) ELISA Kit; MRE11A; ATLD; HNGS1; MRE11; MRE11B; AT-like disease; DNA recombination and repair protein; double-strand break repair protein MRE11A; endo/exonuclease Mre11; meiotic recombination 11 homolog A; MRE11A elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Double-strand break repair protein MRE11A (MRE11A) ELISA Kit has high sensitivity and excellent specificity for detection of Human MRE11A. No significant cross-reactivity or interference between Human MRE11A and analogues was observed.
Sequence Length	680
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Double-strand break repair protein MRE11A (MRE11A) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for MRE11A elisa kit	Description: This Human Double-strand break repair protein MRE11A (MRE11A) ELISA Kit employs a two-site sandwich ELISA to quantitate MRE11A in samples. An antibody specific for MRE11A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any MRE11A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MRE11A is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of MRE11A bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: MRE11A 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. MRE11A has a pseudogene on chromosome 3. Alternative splicing of MRE11A results in two transcript variants encoding different isoforms.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	24234690
NCBI GeneID	4361
NCBI Accession #	NP_005581.2
NCBI GenBank Nucleotide #	NP_005581.2
UniProt Accession #	P49959
NCBI Official Full Name	double-strand break repair protein MRE11 isoform 2
NCBI Official Synonym Full Names	MRE11 homolog, double strand break repair nuclease
NCBI Official Symbol	MRE11
NCBI Official Synonym Symbols	ATLD; HNGS1; MRE11A; MRE11B
NCBI Protein Information	double-strand break repair protein MRE11
UniProt Protein Name	Double-strand break repair protein MRE11A
UniProt Gene Name	MRE11A
UniProt Synonym Gene Names	HNGS1; MRE11; MRE11 homolog 1
UniProt Entry Name	MRE11_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/double-strand-break-repair-protein-mre11a-mre11a/331697>