MRE11A (Human) Cell-Based ELISA Kit

Catalog # KA5637 Size 1 Kit

Specification

Product Description	MRE11A (Human) Cell-Based ELISA Kit is an indirect enzyme-linked immunoassay for qualitative d etermination of MRE11 expression in cultured cells.
Suitable Sample	Attached cell, loosely attached cell and suspension cell
Label	HRP-conjugated
Detection Method	Colorimetric
Assay Type	Qualitative
Reactivity	Human, Mouse, Rat
Regulatory Status	For research use only (RUO)
Storage Instruction	Store at 4°C for six months.

Applications

- Qualitative

Gene Info — MRE11A

Entrez GeneID	4361
Protein Accession#	P49959
Gene Name	MRE11A
Gene Alias	ATLD, HNGS1, MRE11, MRE11B
Gene Description	MRE11 meiotic recombination 11 homolog A (S. cerevisiae)

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Omim ID	600814 604391
Gene Ontology	Hyperlink
Gene Summary	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
Other Designations	AT-like disease|DNA recombination and repair protein|double-strand break repair protein MRE11A|endo/exonuclease Mre11|meiotic recombination 11 homolog A

Pathway

- Homologous recombination
- Non-homologous end-joining

Disease

- Adenocarcinoma
- Ataxia telangiectasia
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Carcinoma
- DNA Damage
- Genetic Predisposition to Disease
- Glioma
- Hematologic Diseases
- Hodgkin Disease
- Kidney Failure

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- Lymphoma
- Lymphoproliferative Disorders
- Multiple Sclerosis
- Neoplasms
- Occupational Diseases
- Ovarian cancer
- Ovarian Neoplasms
- Pancreatic cancer
- Pancreatic Neoplasms
- Prostate cancer
- Prostatic Neoplasms
- Spinocerebellar ataxia
- Urinary Bladder Neoplasms
- Waldenstrom Macroglobulinemia
- Werner syndrome

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