

## Summary

<b>Production Name</b>	MRE11 Mouse Monoclonal Antibody
<b>Description</b>	Mouse Monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	WB,IHC,FC,ELISA
<b>Reactivity</b>	Human, Mouse, Monkey, Rat

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	Mouse IgG2b
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Purified antibody in PBS with 0.05% sodium azide
<b>Purification</b>	Affinity Purification

## Immunogen

<b>Gene Name</b>	MRE11
<b>Alternative Names</b>	ATLD; HNGS1; MRE11A; MRE11B
<b>Gene ID</b>	4361.0
<b>SwissProt ID</b>	P49959.Purified recombinant fragment of human MRE11 (AA: 182-582) expressed in E. Coli.

## Application

<b>Dilution Ratio</b>	WB:1:500-1:2000,IHC:1:200-1:1000,FC:1:200-1:400,ELISA:1:10000
<b>Molecular Weight</b>	80.6kDa

## Background

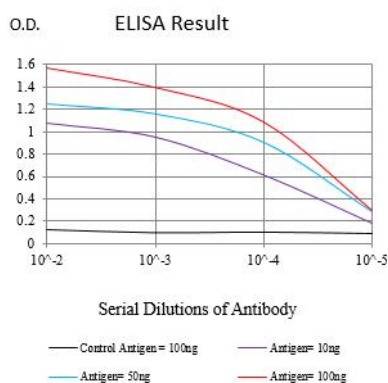
**Product Name: MRE11 Mouse Monoclonal Antibody**  
**Catalog #: AMM82979**



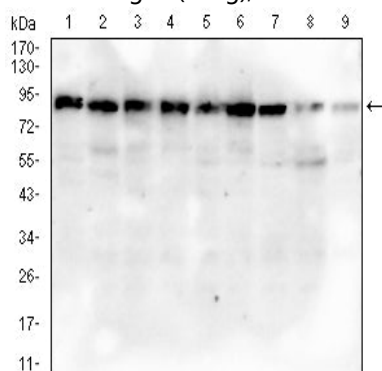
This gene encodes a nuclear protein involved in homologous recombination, telomere length maintenance, and DNA double-strand break repair. By itself, the protein has 3' to 5' exonuclease activity and endonuclease activity. The protein forms a complex with the RAD50 homolog; this complex is required for 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.

## Research Area

## Image Data

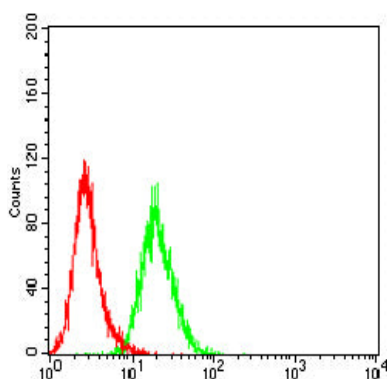


Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

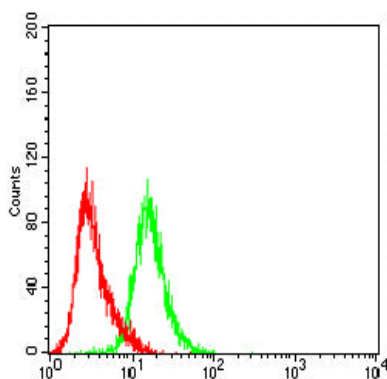


Western blot analysis using MRE11 mouse mAb against Hela (1), A431 (2), MCF-7 (3), Jurkat (4), HepG2 (5), K562 (6), COS-7 (7), PC-12 (8) and NIH/3T3 (9) cell lysate.

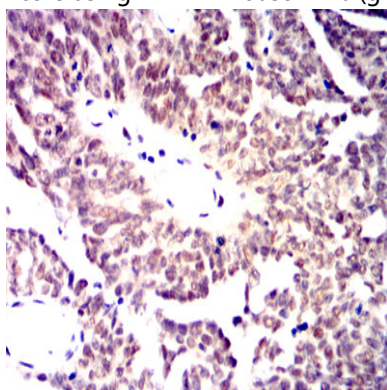
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Flow cytometric analysis of HeLa cells using MRE11 mouse mAb (green) and negative control (red).



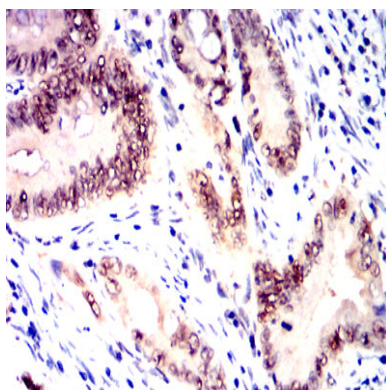
Flow cytometric analysis of K562 cells using MRE11 mouse mAb (green) and negative control (red).



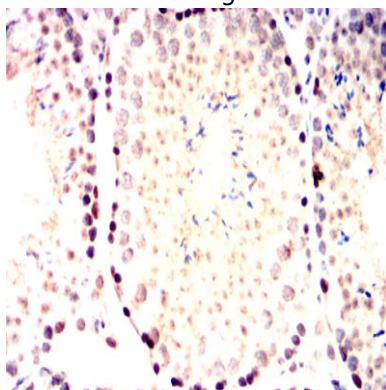
Immunohistochemical analysis of paraffin-embedded human ovarian cancer tissues using MRE11 mouse mAb with DAB staining.

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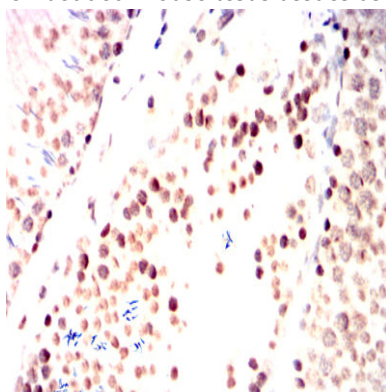
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Immunohistochemical analysis of paraffin-embedded human rectal cancer tissues using MRE11 mouse mAb with DAB staining.



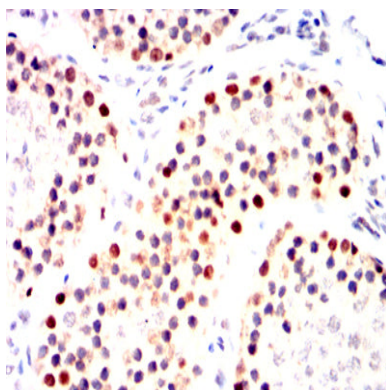
Immunohistochemical analysis of paraffin-embedded Mouse testis tissues using MRE11 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded Rat testis tissues using MRE11 mouse mAb with DAB staining.

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Immunohistochemical analysis of paraffin-embedded Rabbit testis tissues using MRE11 mouse mAb with DAB staining.

#### **Note**

For research use only.