

# MRE11 Rabbit mAb

Catalog No.: A4222    Recombinant    1 Publications

## Basic Information

### Observed MW

81kDa

### Calculated MW

81kDa

### Category

Primary antibody

### Applications

WB,ELISA,ChIP

### Cross-Reactivity

Human, Mouse

### CloneNo number

ARC0931

## Background

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.

## Recommended Dilutions

WB                    1:500 - 1:2000

ELISA                Recommended starting concentration is 1 µg/mL.  
Please optimize the concentration based on your specific assay requirements.

ChIP                5µg antibody for 10µg-15µg of Chromatin

## Immunogen Information

### Gene ID

4361

### Swiss Prot

P49959

### Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

### Synonyms

ATLD; HNGS1; MRE11A; MRE11B; MRE11

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

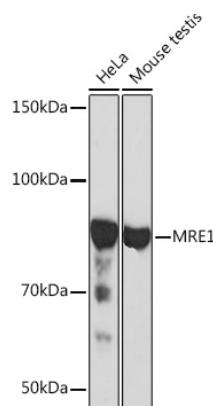
Affinity purification

### Storage

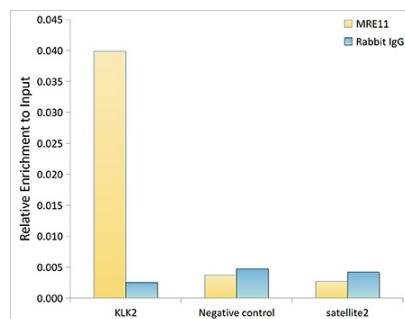
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

## Validation Data



Western blot analysis of various lysates using MRE11 Rabbit mAb (A4222) at 1:1000 dilution.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25 $\mu$ g per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 30s.



Chromatin immunoprecipitation analysis of extracts of LNCaP cells, using Mre11 antibody (A4222) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.