# Anti-Mre11 Rabbit pAb

Purified Rabbit Polyclonal Antibody

Catalog # P101905

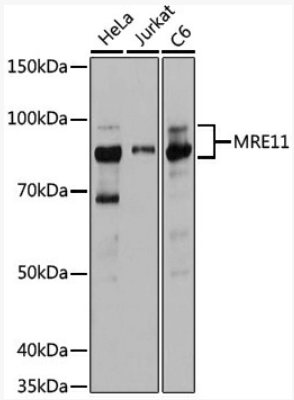
## Product Information

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| Application | WB, IP, ELISA |
| Reactivity | Human, Rat |
| Dilution | WB 1:500~1:1000; IP 0.5μg-4μg antibody for 200μg-400μg extracts of whole cells |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Label | Unconjugated |
| Immunogen | Recombinant fusion protein containing a sequence corresponding to amino acids 290-485 of human MRE11 (NP_005582.1). |
| Format | Affinity purified polyclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3. |
| Storage | Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage. |
| Precautions | Anti-Mre11 Rabbit pAb is for research use only and not for use in diagnostic or therapeutic procedures. |

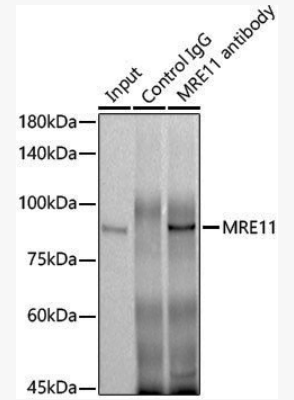
## Protein Information

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|---|---|
| Synonyms | ATLD; HNGS1; MRE11A; MRE11B; MRE11. |
| Calculated MW | Calculated MW: 81 kDa; Observed MW: 81 kDa |
| Uniprot ID | P49959 |
| Gene ID | 4361 |
| 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. |

## Validation Images




Western blot analysis of various lysates using MRE11 Rabbit pAb (P101905) at 1:1,000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Kit.
Exposure time: 5s.




Immunoprecipitation analysis of 300 µg extracts of HeLa cells using 3 µg MRE11 antibody (P101905). Western blot was performed from the immunoprecipitate using MRE11 antibody (P101905) at a dilution of 1:1000.