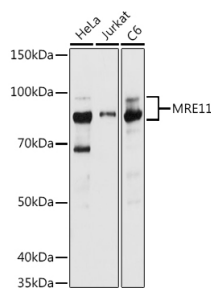


|                          |  |
|--------------------------|--|
| <b>Cat. No:</b>          | AB-84200   |
| <b>Conjugate:</b>        | Unconjugated   |
| <b>Size:</b>             | 100ug  |
| <b>Clone:</b>            | POLY   |
| <b>Concentration:</b>    | 1mg/ml   |
| <b>Host:</b>             | Rabbit   |
| <b>Isotype:</b>          | IgG  |
| <b>Immunogen:</b>        | Recombinant fusion protein containing a sequence corresponding to amino acids 290-485 of human MRE11 |
| <b>Reactivity:</b>       | Human, Rat   |
| <b>Applications:</b>     | Western Blot: 1:500 - 1:1000<br>Immunoprecipitation: 1:500 - 1:1000                                  |
| <b>Molecular Weight:</b> | 81KDa  |
| <b>Purification:</b>     | Affinity purification  |
| <b>Synonyms:</b>         | MRE11;ATLD;HNGS1;MRE11A;MRE11B   |

**Background:**

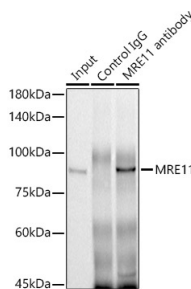
This gene encodes a nuclear protein involved in homologous recombination, telomere length maintenance, and DNA double-strand break repair. By itself, the protein has 3' to 5' exonuclease activity and endonuclease activity. The protein forms a complex with the RAD50 homolog; this complex is required for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

|                 |  |
|-----------------|--|
| <b>Form:</b>    | Liquid   |
| <b>Buffer:</b>  | PBS with 0.01% thiomersal, 50% glycerol, pH 7.3. |
| <b>Storage:</b> | Store at -20°C. Avoid freeze / thaw cycles.      |



Western blot analysis of extracts of various cell lines, using MRE11 antibody at 1:1000 dilution.

Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.  
Lysates/proteins: 25ug per lane.



Immunoprecipitation analysis of 300ug extracts of HeLa cells using 3ug MRE11 antibody.

Western blot was performed from the immunoprecipitate using MRE11 antibody at a

Blocking buffer: 3% nonfat dry milk in  
TBST.

Detection: ECL West Pico Plus.  
Exposure time: 5s.

dilution of 1:1000.

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