

## Rabbit MRE11 Polyclonal Antibody | anti-MRE11 antibody

Anti-MRE11 Antibody Picoband

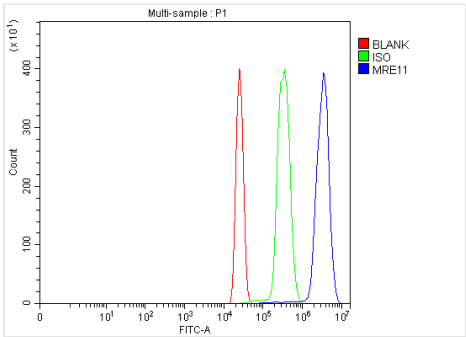
| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                                |
|-----------|--------|-------------------|-----------------------------------------------------------------------------|
| AAA19650  | Rabbit | Human, Mouse, Rat | Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA |

### PRODUCT SYNONYMS

MRE11; Polyclonal Antibody; Anti-MRE11 Antibody Picoband; anti-MRE11 antibody

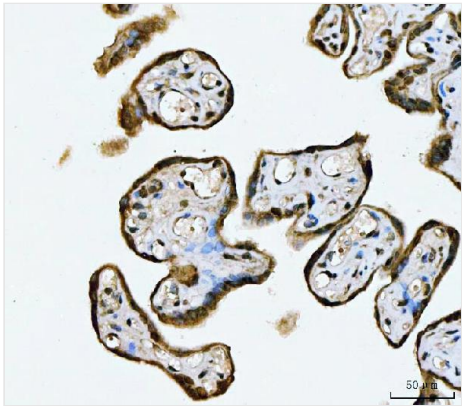
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                                                                                                                                                                   |
| Reactivity                                      | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                                                                        |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                                                                                                                                                               |
| Isotype                                         | Rabbit IgG                                                                                                                                                                                                                                                                                                                                                               |
| Purity/Purification                             | Immunogen affinity purified.                                                                                                                                                                                                                                                                                                                                             |
| Form/Format                                     | Lyophilized<br>Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                                                                                                                                                                 |
| Concentration                                   | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)                                                                                                                                                                                                                                                                                |
| Applicable Applications for anti-MRE11 antibody | WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA                                                                                                                                                                                                                                                                                          |
| Application Notes                               | WB: 0.25-0.5 ug/ml, Human, Mouse, Rat<br>IHC-P: 2-5 ug/ml, Human<br>FC/FACS: 1-3 ug/1x10 <sup>6</sup> cells, Human<br>Direct ELISA: 0.1-0.5 ug/ml, Human<br>Tested Species: In-house tested species with positive results.<br>Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC(P). |
| Reconstitution                                  | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.                                                                                                                                                                                                                                                                                                |
| Immunogen                                       | E Coli-derived human MRE11 recombinant protein (Position: E278-D498).                                                                                                                                                                                                                                                                                                    |
| Preparation and Storage                         | Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.                                                                                                                                             |



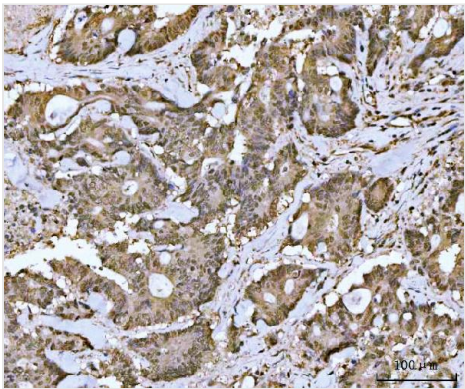
FCM (Flow Cytometry)

Figure 7. Flow Cytometry analysis of HL-60 cells using anti-MRE11 antibody (AAA19650).Overlay histogram showing HL-60 cells stained with AAA19650 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MRE11 Antibody (AAA19650, 1 ug/1x10<sup>6</sup> cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



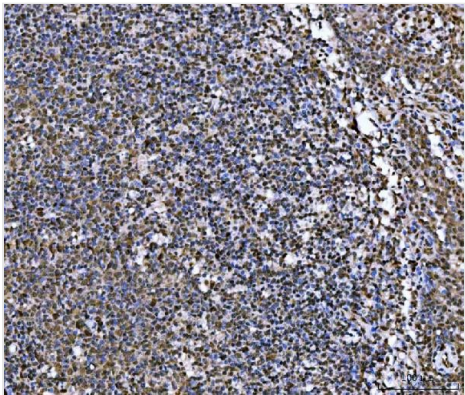
IHC (Immunohistochemistry)

Figure 5. IHC analysis of MRE11 using anti-MRE11 antibody (AAA19650).MRE11 was detected in a paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-MRE11 Antibody (AAA19650) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



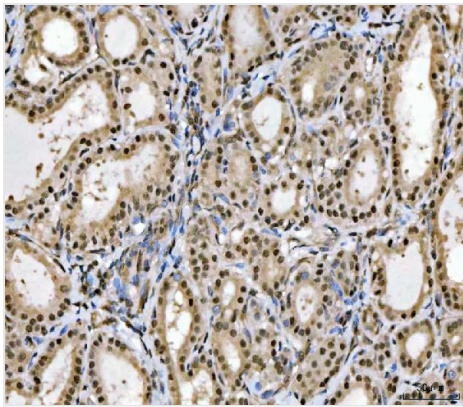
IHC (Immunohistochemistry)

Figure 6. IHC analysis of MRE11 using anti-MRE11 antibody (AAA19650).MRE11 was detected in a paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-MRE11 Antibody (AAA19650) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



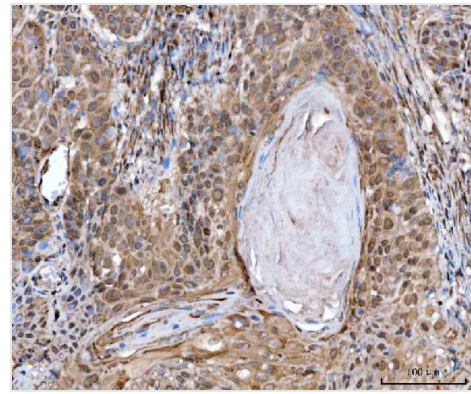
IHC (Immunohistochemistry)

Figure 4. IHC analysis of MRE11 using anti-MRE11 antibody (AAA19650).MRE11 was detected in a paraffin-embedded section of human tonsil tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-MRE11 Antibody (AAA19650) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



#### IHC (Immunohistochemistry)

Figure 3. IHC analysis of MRE11 using anti-MRE11 antibody (AAA19650). MRE11 was detected in a paraffin-embedded section of human thyroid cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-MRE11 Antibody (AAA19650) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



#### IHC (Immunohistochemistry)

Figure 2. IHC analysis of MRE11 using anti-MRE11 antibody (AAA19650). MRE11 was detected in a paraffin-embedded section of human laryngeal squamous cell carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-MRE11 Antibody (AAA19650) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.

## ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-MRE11 antibody</b> | Double-strand break repair protein MRE11A is a protein that in humans is encoded by the MRE11A gene. 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>Product Categories/Family for anti-MRE11 antibody</b>   | <a href="#">Primary Antibodies</a> , <a href="#">Rabbit Polyclonal Antibodies</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## NCBI AND UNIPROT INFORMATION

|                                         |                                                                                                                                                                                                                                    |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NCBI GI #</b>                        | <a href="#">24234690</a>                                                                                                                                                                                                           |
| <b>NCBI GeneID</b>                      | <a href="#">4361</a>                                                                                                                                                                                                               |
| <b>NCBI Accession #</b>                 | <a href="#">NP_005581.2</a>                                                                                                                                                                                                        |
| <b>NCBI GenBank Nucleotide #</b>        | <a href="#">NM_005590.3</a>                                                                                                                                                                                                        |
| <b>UniProt Accession #</b>              | <a href="#">P49959</a> ; <a href="#">O43475</a>                                                                                                                                                                                    |
| <b>Molecular Weight</b>                 | 80,593 Da                                                                                                                                                                                                                          |
| <b>NCBI Official Full Name</b>          | double-strand break repair protein MRE11A isoform 2                                                                                                                                                                                |
| <b>NCBI Official Synonym Full Names</b> | MRE11 meiotic recombination 11 homolog A (S. cerevisiae)                                                                                                                                                                           |
| <b>NCBI Official Symbol</b>             | MRE11A                                                                                                                                                                                                                             |
| <b>NCBI Official Synonym Symbols</b>    | ATLD; HNGS1; MRE11; MRE11B                                                                                                                                                                                                         |
| <b>NCBI Protein Information</b>         | double-strand break repair protein MRE11A; AT-like disease; MRE11 homolog 1; MRE11 homolog A; endo/exonuclease Mre11; meiotic recombination 11 homolog 1; meiotic recombination 11 homolog A; DNA recombination and repair protein |
| <b>UniProt Protein Name</b>             | Double-strand break repair protein MRE11A                                                                                                                                                                                          |

|                            |                               |
|----------------------------|-------------------------------|
| UniProt Gene Name          | MRE11A                        |
| UniProt Synonym Gene Names | HNGS1; MRE11; MRE11 homolog 1 |
| UniProt Entry Name         | MRE11_HUMAN                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mre11-antibody-western-blot-immunohistochemistry-flow-cytometry-elisa/19650>