

Datasheet: VPA00590

Description:	RABBIT ANTI MRE11
Specificity:	MRE11
Format:	Purified
Product Type:	PrecisionAb Polyclonal
Isotype:	Polyclonal IgG
Quantity:	100 µl

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/1000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

Target Species	Human
Species Cross Reactivity	<p>Reacts with: Rat</p> <p>N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p>
Product Form	Purified IgG - liquid.
Preparation	Rabbit polyclonal antibody purified by affinity chromatography.
Buffer Solution	Phosphate buffered saline.
Preservative Stabilisers	<p>0.09% Sodium Azide (NaN₃)</p> <p>2% Sucrose.</p>
Immunogen	Synthetic peptide directed towards the middle region of human MRE11A

**External Database
Links**

UniProt:

[P49959](#)

[Related reagents](#)

Entrez Gene:

[4361](#)

MRE11A

[Related reagents](#)

Synonyms

HNGS1, MRE11

Specificity

Rabbit anti Human MRE11 antibody recognizes the double-strand break repair protein MRE11, also known as AT-like disease, DNA recombination and repair protein, MRE11 homolog 1, MRE11 homolog A, endo/exonuclease Mre11, meiotic recombination 11 homolog 1 or meiotic recombination 11 homolog A.

MRE11A 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. Mutations in the MRE11A gene causes Ataxia-telangiectasia-like disorder 1 ([ATLD1](#)), a rare disorder characterized by progressive cerebellar ataxia, dysarthria, abnormal eye movements, and absence of telangiectasia ([Stewart et al. 1999](#)). MRE11A has a pseudogene on chromosome 3. Alternative splicing of MRE11A results in two transcript variants encoding different isoforms (provided by RefSeq, Jul 2008).

Rabbit anti Human MRE11 antibody detects a band of 81 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

Western Blotting

Anti MRE11 detects a band of approximately 81 kDa in HeLa cell lysates.

Storage

Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

Guarantee

12 months from date of despatch.

Acknowledgements

PrecisionAb is a trademark of Bio-Rad Laboratories.

**Health And Safety
Information**

Material Safety Datasheet documentation #10045 available at:
<https://www.bio-rad-antibodies.com/SDS/VPA00590>
Antibody (10045)

Regulatory

For research purposes only.

Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (H/L) (STAR208...) [HRP](#)

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batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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