

Datasheet: VPA00590KT

Description:	MRE11 ANTIBODY WITH CONTROL LYSATE
Specificity:	MRE11
Format:	Purified
Product Type:	PrecisionAb Polyclonal
Isotype:	Polyclonal IgG
Quantity:	2 Westerns

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

PrecisionAb antibodies have been extensively [validated for the western blot application](#). The antibody has been validated at the suggested dilution. 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 dependant 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	20µl 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.

Instructions For Use

Please refer to the [PrecisionAb western blotting protocol](#).

Lysate Composition

400µg HeLa lysate lyophilized in RIPA buffer.

Lysate Reconstitution

- If using DDT reconstitute the lyophilized lysate with 190µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.

- If using BME reconstitute the lyophilized lysate with 180µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 20µl BME.

Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.

Storage

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

Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.

Guarantee	As supplied, 12 months from date of despatch.
Acknowledgements	PrecisionAb™ is a trademark of Bio-Rad Laboratories.
Health And Safety Information	Material Safety Datasheet documentation #10045 #10561 available at: Antibody (10045): https://www.bio-rad-antibodies.com/uploads/MSDS/10045.pdf Lysate Material (10561): https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf
Regulatory	For research purposes only.

Related Products

Recommended Secondary Antibodies

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

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Printed on 10 Feb 2021