

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

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	Reacts with: Rat N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	Rabbit polyclonal antibody purified by affinity chromatography
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 2% Sucrose
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 . For additional information on secondary antibody dilution and exposure time see product web page.
Storage	Store undiluted at -20°C, avoiding repeated freeze thaw cycles
Shelf Life	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 available at: Antibody (10045): https://www.bio-rad-antibodies.com/uploads/MSDS/10045.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

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