

# MRE11 polyclonal antibody

Catalog # PAB10277      Size 100 ug

## Applications

### ChIP

Chromatin Immunoprecipitation (ChIP) using MRE11 polyclonal antibody (Cat # PAB10277).

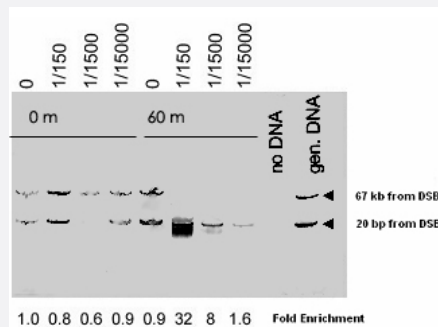
A yeast strain containing the HO endonuclease gene controlled by a galactose-inducible promoter (uninduced 0 m lanes) was shifted into galactose containing medium (induced 60 m lanes).

After 1 hour of induction cells were cross-linked with formaldehyde followed by preparation of sheared chromatin.

Chromatin was immunoprecipitated with the antibody at the stated dilutions. Immunocomplexes were captured using polyacrylamide bead linked secondary antibodies.

The resultant immunoprecipitate was probed by multiplex PCR, using primers 20 bp from the MAT locus double strand break (lower arrow) and 67 kb from the break (upper band, control locus).

Personal Communication. Michael Lichten, NIH, CCR, Bethesda, MD.



## Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of MRE11.
Immunogen	A synthetic peptide corresponding to amino acids 578-590 of <i>Saccharomyces cerevisiae</i> MRE11.
Host	Rabbit
Reactivity	Yeast
Specificity	This affinity-purified antibody is directed against <i>Saccharomyces cerevisiae</i> Mre11 protein.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.

<b>Recommend Usage</b>	ELISA (1:10000-1:50000) Western Blot (1:200-1:2000) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In 20 mM KH <sub>2</sub> PO <sub>4</sub> , 150 mM NaCl, pH 7.2 (0.01% sodium azide)
<b>Storage Instruction</b>	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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- Western Blot

- Enzyme-linked Immunoabsorbent Assay

## Gene Info — MRE11

<b>Entrez GeneID</b>	<a href="#">855264</a>
<b>Protein Accession#</b>	<a href="#">P32829;NP_013951</a>
<b>Gene Name</b>	MRE11
<b>Gene Alias</b>	NGS1, RAD58, XRS4
<b>Gene Description</b>	Mre11p
<b>Gene Ontology</b>	<a href="#">Hyperlink</a>
<b>Gene Summary</b>	exhibits nuclease activity that appears to be required for RMX function; widely conserved

**Other Designations**

Subunit of a complex with Rad50p and Xrs2p (RMX complex) that functions in repair of DNA double-strand breaks and in telomere stability, exhibits nuclease activity that appears to be required for RMX function; widely conserved

**Publication Reference**

- [The 3' to 5' exonuclease activity of Mre 11 facilitates repair of DNA double-strand breaks.](#)

Paull TT, Gellert M.

Molecular Cell 1998 Jun; 1(7):969.

- [Interaction of Mre11 and Rad50: two proteins required for DNA repair and meiosis-specific double-strand break formation in \*Saccharomyces cerevisiae\*.](#)

Johzuka K, Ogawa H.

Genetics 1995 Apr; 139(4):1521.

Application: WB-Ce, WB-Tr, Yeast, Yeast cells

- [Functions of the yeast meiotic recombination genes, MRE11 and MRE2.](#)

Ogawa H, Johzuka K, Nakagawa T, Leem SH, Hagihara AH.

Advances in Biophysics 1995 Jan; 31:67.

Application: WB-Re, WB-Tr, Yeast, Recombinant proteins, Yeast cells