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Datasheet for 600-401-872

Mre11 Antibody

Overview

Description:	Anti-Mre11 (S. cerevisiae) (RABBIT) Antibody - 600-401-872
Item No.:	600-401-872
Size:	100 µg
Applications:	ChIP, ELISA
Reactivity:	S. cerevisiae
Host Species:	Rabbit

Product Details

Background:	Mre11 (also known as double-strand break repair protein MRE11) is a subunit of a complex with Rad50 and Xrs2 (RMX complex) that functions in repair of DNA double-strand breaks and in telomere stability. Mre11 possesses single-strand endonuclease activity and double-strand-specific 3'-5' exonuclease activity that appears to be required for RMX function. This nuclear protein is widely conserved and is also involved in meiotic double strand break processing.
Synonyms:	rabbit anti-Mre11 antibody, Double-strand break repair protein MRE11, DNA recombination and repair protein, Meiotic recombination 11
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	MRE11
Reactivity:	S. cerevisiae
Immunogen Type:	Conjugated Peptide
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region near amino acids 575-600 of Saccharomyces cerevisiae (baker's yeast) Mre11 protein.

Purity/Specificity:	This affinity-purified antibody is directed against Saccharomyces cerevisiae Mre11 protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest that little cross reactivity should be expected with this protein from other sources.
Relevant Links:	• NCBI - 6323880 • UniProtKB - P32829 • NCBI - P49959.3 • GeneID - 4361

Application Details

Tested Applications:	ChIP, ELISA
Application Note:	This affinity purified antibody has been tested for use in ELISA and by ChIP assay. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ChIP:	User Optimized
ELISA:	1:10,000 - 1:50,000
WB:	1:500- 1:2,000

Formulation

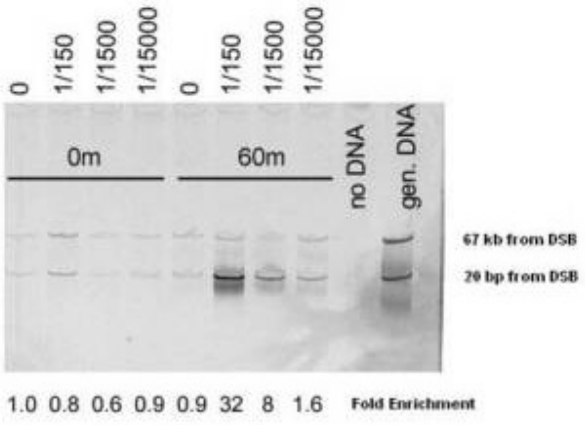
Physical State:	Liquid (sterile filtered)
Concentration:	1.17 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



ChIP
Chromatin Immunoprecipitation (ChIP) using Rockland's Affinity Purified Mre11 (S. cerevisiae) antibody. A yeast strain containing the HO endonuclease gene controlled by a galactose-inducible promoter (uninduced 0m lanes) was shifted into galactose containing medium (induced 60m 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 band) and 67 kb from the break (upper band, control locus). PCR products were displayed on a polyacrylamide gel, stained with SyBR Green® (Invitrogen), and detected using a Fuji scanning fluorometer. Personal Communication. Michael Lichten, NIH, CCR, Bethesda, MD.

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