

Datasheet for 600-401-925**Mer2 Antibody****Overview**

Description:	Anti-Mer2 (RABBIT) Antibody - 600-401-925
Item No.:	600-401-925
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	<i>S. cerevisiae</i>
Host Species:	Rabbit

Product Details

Background:	This antibody is designed, produced, and validated as part of a collaboration between Rockland and the National Cancer Institute (NCI) and is suitable for Cancer, Immunology and Nuclear Signaling research. Mer2 (also known as meiotic recombination 2 protein) is a chromosomal protein that is critical for meiotic recombination and progression. It is phosphorylated at two serine residues, S30 and S271 by the yeast Cdk1 cyclin- dependent kinase homolog. This phosphorylation is S-phase specific, and thus has the potential to be a specific assay for S-phase cyclin-dependent kinases. Moreover, there are hints that the phosphorylation may be a mark of replication fork passage, which would indicate that S-phase CDK associates with the replication fork.
Synonyms:	rabbit anti-Mer2 antibody, Meiotic recombination 2 protein, Recombination protein 107, REC107, YJR021C, J1462
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	MER2, REC107
Reactivity:	<i>S. cerevisiae</i>
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 amino acids 26-35 of <i>Saccharomyces cerevisiae</i> Mer2 protein.
Purity/Specificity:	This affinity-purified antibody is directed against the <i>Saccharomyces cerevisiae</i> Mer2 protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. Reactivity occurs against <i>Saccharomyces cerevisiae</i> Mer2 protein and reactivity is independent of phosphorylation at residue S30. A BLAST analysis was used to suggest minimal cross reactivity with Mer2 homologues from other sources.
Relevant Links:	• NCBI - 1170924 • UniProtKB - P21651 • GeneID - 853478

Application Details

Tested Applications:	ELISA, WB
Application Note:	This affinity purified antibody has been tested for use in ELISA and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 50 kDa in size corresponding to Mer2 protein by western blotting in the appropriate cell lysate or extract. This antibody is reactive with both phosphorylated and unphosphorylated Mer2 at the S30 position.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000 - 1:25,000
IP:	1:100
WB:	1:1,000 - 1:10,000

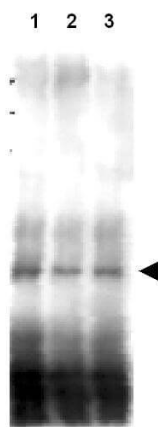
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.75 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



Western Blot

Western blot using Rockland's affinity purified anti-*S.cerevisiae* Mer2 antibody shows detection of phosphorylated and unphosphorylated Mer2 in wild type, phosphatase treated and mutant cells. Lane 1 contains Mer2-myc protein detected in wild type cells after first immunoprecipitating the protein using anti-myc antibody. Cells were harvested 4 h after the initiation of meiosis and therefore contain mostly phosphorylated Mer2. Lane 2 contains the same preparation after treatment with phosphatase. Lane 3 contains Mer2-S30A protein as a phosphorylation control. This antibody is reactive with both phosphorylated and unphosphorylated Mer2 at the S30 position. The primary antibody was used at a 1:5,000 dilution. Personal Communication. Michael Lichten, NIH, CCR, Bethesda, MD.

Disclaimer

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