



Anti-Mer2 pS30 (RABBIT) Antibody - 600-401-924

Code: 600-401-924

Size: 100 µg

Product Description: Anti-Mer2 pS30 (RABBIT) Antibody - 600-401-924

PhysicalState: Liquid (sterile filtered)

Label	Unconjugated
Host	Rabbit
Gene Name	MER2, REC107
Species Reactivity	S.cerevisiae
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide
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.
Synonyms	Meiotic recombination 2 protein REC107
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 phosphorylated Mer2 protein by western blotting in the appropriate cell lysate or extract. Less than 2% reactivity is observed against the non-phosphorylated form of the immunizing peptide. This antibody is phospho specific for Mer2 phosphorylated at the pS30 residue. Preparation of extracts from cells 4hr after initiation of meiosis is suggested.
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.
Purity And Specificity	This affinity-purified antibody is directed against the phosphorylated form of Saccharomyces cerevisiae Mer2 protein at the pS30 residue. The product was affinity purified from monospecific antiserum by immunoaffinity purification. Antiserum was first purified against the phosphorylated form of the immunizing peptide. The resultant affinity purified antibody was then cross-adsorbed
Assay Dilutions	User Optimized
ELISA	1:5,000 - 1:25,000
WESTERN BLOT	1:1,000 - 1:10,000
OTHER ASSAYS	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
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 Saccharomyces cerevisiae Mer2 protein.
General Reference	Engbrecht,J., Hirsch,J. and Roeder,G.S. (1990) Meiotic gene conversion and crossing over: their relationship to each other and to chromosome synapsis and segregation. Cell 62 (5), 927-937. Engbrecht,J.A., Voelkel-Meiman,K. and Roeder,G.S. (1991) Meiosis-specific RNA splicing in yeast. Cell 66 (6), 1257-1268. Hani,J., Stumpf,G. and Domdey,H. (1995) PTF1 encodes an essential protein in Saccharomyces cerevisiae, which shows strong homology with a new putative family of PPlases. FEBS Lett. 365 (2-3), 198-202.

Related Products

211-1202 Anti-RABBIT (H&L) (GOAT) Antibody Fluorescein Conjugated - 211-1202

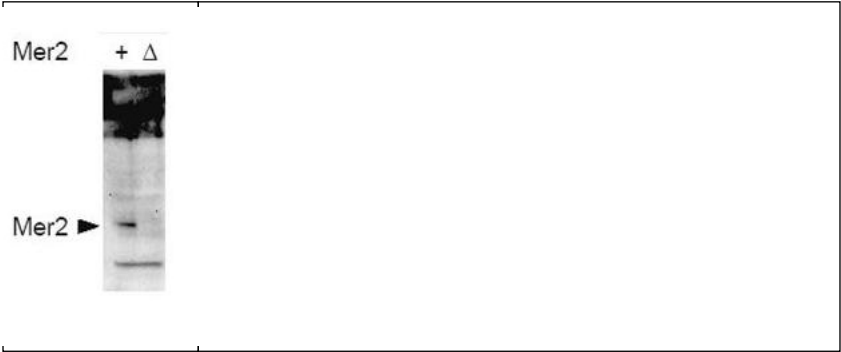
600-401-879	Anti-HDAC-1 (RABBIT) Antibody - 600-401-879
600-401-925	Anti-Mer2 (RABBIT) Antibody - 600-401-925
611-1302	Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302

Related Links

Images

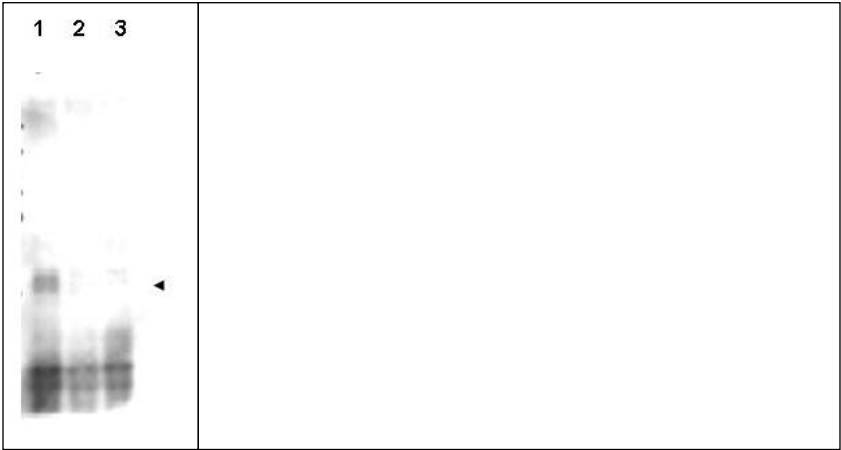
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Western blot using Rockland's affinity purified anti-S.cerevisiae Mer2 pS30 antibody shows detection of phosphorylated Mer2 in whole cell extracts. Cells were either wild type (+) or contained mer2 deletions (Δ). Extracts were prepared from cells 4hr after initiation of meiosis. Proteins were obtained using TCA precipitation. The primary antibody was used at a 1:7,500 dilution. Secondary antibody was used at 1:5,000 dilution. Personal Communication. Michael Lichten, NIH, CCR, Bethesda, MD.



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Western blot using Rockland's affinity purified anti-S.cerevisiae Mer2 pS30 antibody shows detection of phosphorylated Mer2 but not phosphatase treated or 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 appears to be specific for phosphorylated Mer2 at the S30 position with negligible cross reactivity against unphosphorylated protein. The primary antibody was used at a 1:5,000 dilution. Personal Communication. Michael Lichten, NIH, CCR, Bethesda, MD.



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