Anti-Mer2 (RABBIT) Antibody - 600-401-925

Code: 600-401-925 **Size:** 100 µg

Product Description: Anti-Mer2 (RABBIT) Antibody - 600-401-925

Concentration: 0.75 mg/mL by UV absorbance at 280 nm

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
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.
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
Purity And Specificity	This affinity-purified antibody is directed against the Saccharomyces cerevisiae Mer2 protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. Reactivity occurs against Saccharomyces cerevisiae 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.
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	Engebrecht,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. Engebrecht,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 PPIases. FEBS Lett. 365 (2-3), 198-202.

Related Products

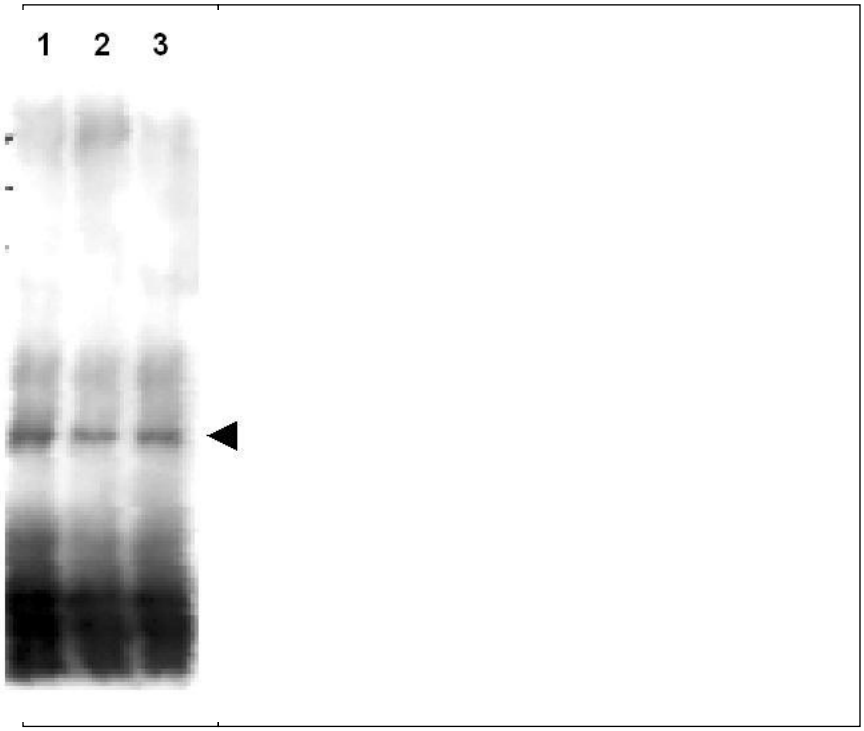
600-401-924	Anti-Mer2 pS30 (RABBIT) Antibody - 600-401-924
611-1302	Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302

611-143-002	Anti-RABBIT IgG (H&L) (GOAT) Antibody DyLight™ 649 Conjugated - 611-143-002
FEMTOMAX-110	Chemiluminescent FemtoMax™ Super Sensitive HRP Substrate for Microwell and/or Membrane (2 component system) - FEMTOMAX-110

Related Links

Images

1	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 phosphor-ylated 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.



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