

Product datasheet for **AP09316PU-N**

REC107 pSer30 Rabbit Polyclonal Antibody

Product data:

| | |
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| Product Type: | Primary Antibodies |
| Applications: | ELISA, WB |
| Recommended Dilution: | ELISA: 1/5,000 - 1/25,000. Western Blot: 1/1,000 - 1/10,000. |
| Reactivity: | Saccharomyces cerevisiae |
| Host: | Rabbit |
| Isotype: | IgG |
| Clonality: | Polyclonal |
| Immunogen: | Synthetic peptide corresponding to amino acids 26-35 of Saccharomyces cerevisiae Mer2 protein |
| Specificity: | This antibody is directed against the phosphorylated form of Saccharomyces cerevisiae Mer2 protein at the pS30 residue. |
| Formulation: | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 containing 0.01% (w/v) Sodium Azide State: Aff - Purified State: Liquid purified Ig |
| Concentration: | lot specific |
| Purification: | Affinity chromatography |
| Conjugation: | Unconjugated |
| Storage: | Store the antibody at -20°C. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| Database Link: | P21651 |



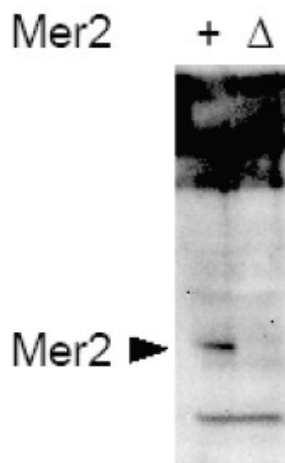
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Background:

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 Sphase CDK associates with the replication fork.

Synonyms:

Meiotic recombination 2 protein, REC107, YJR021C, J1462

Product images:


Western blot using 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 (delta). 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.



Western blot using 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 unphosphor-ylated protein. The primary antibody was used at a 1:5,000 dilution.