Datasheet for ABIN129680

anti-CD151 antibody (pSer30)

2 Images

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Overview

Quantity:	100 µg
Target:	CD151
Binding Specificity:	AA 26-35, pSer30
Reactivity:	Saccharomyces cerevisiae
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD151 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

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.
Isotype:	IgG

Target Details

Target:	CD151
Alternative Name:	Mer2 (CD151 Products)
Background:	This antibody is designed, produced, 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

Target Details

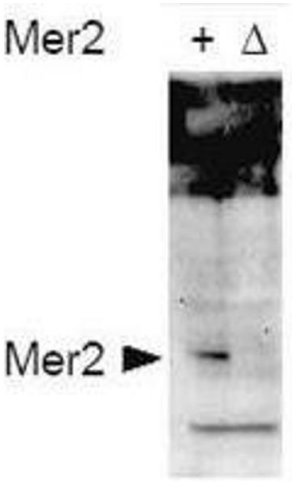
	serine residues, S30 and S271 by the yeast Cdk1 cyclin- dependent kinase homolog. This phosphorylation is S-phase specific, and thus has the potential to be a specific assay for S-phase cyclin-dependent kinases. Moreover, there are hints that the phosphorylation may be a mark of replication fork passage, which would indicate that S-phase CDK associates with the replication fork. Synonyms: Meiotic recombination 2 protein REC107
Gene ID:	853478, 1170924
UniProt:	P21651

Application Details

Application Notes:	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.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C



Western Blotting

Image 1. 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 (D). 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.

Western Blotting

Image 2. 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. Personal Communication. Michael Lichten, NIH, CCR, Bethesda, MD.

