



Rec8 Monoclonal Antibody

Catalog No	YP-mAb-16771
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	REC8
Protein Name	Meiotic recombination protein REC8 homolog
Immunogen	The antiserum was produced against synthesized peptide derived from human REC8. AA range:154-203
Specificity	Rec8 Monoclonal Antibody detects endogenous levels of Rec8 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	REC8; REC8L1; Meiotic recombination protein REC8 homolog; Cohesin Rec8p
Observed Band	62kD
Cell Pathway	Nucleus . Chromosome . Chromosome, centromere . In meiotic chromosomes, localized along axial elements in prophase from the leptotene to diplotene stages. At later prophase stages, diakinesis and metaphase I, localized along interstitial axes of chromosomes including both centromere and arm regions. No longer detected in arm regions in anaphase I but persists on centromere regions until metaphase II. Localized to centromeres and spindle poles in endopolyploid tumor cells. .
Tissue Specificity	Expressed in testis and thymus. Expressed in the B-cell lines WI-L2-NS and Namalwa (at protein level).
Function	function:Required during meiosis for separation of sister chromatids and homologous chromosomes. Proteolytic cleavage of REC8 on chromosome arms by separin during anaphase I allows for homologous chromosome separation in meiosis I and cleavage of REC8 on centromeres during anaphase II allows for sister chromatid separation in meiosis II.,PTM:Phosphorylated.,similarity:Belongs to the rad21 family.,subcellular location:In meiotic chromosomes, localized along axial elements in prophase from the leptotene to diplotene stages. At later prophase stages, diakinesis and metaphase I, localized along interstitial axes of chromosomes including both centromere and arm regions. No longer detected in arm regions in anaphase I but persists on centromere regions until metaphase



II.,subunit:Interacts in both phosphorylated and unphosphorylated forms with SMC3, SYCP3 and SMC1B but not with SMC1A. Also int

Background

This gene encodes a member of the kleisin family of SMC (structural maintenance of chromosome) protein partners. The protein localizes to the axial elements of chromosomes during meiosis in both oocytes and spermatocytes. In the mouse, the homologous protein is a key component of the meiotic cohesion complex, which regulates sister chromatid cohesion and recombination between homologous chromosomes. Multiple alternatively spliced variants, encoding the same protein, have been found for this gene. [provided by RefSeq, Jul 2008],

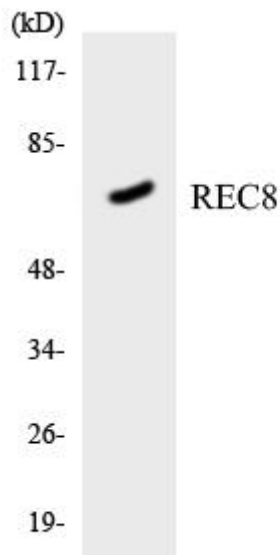
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using Rec8 Monoclonal Antibody