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REC8 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13570c

Product Information

Application	WB, E
Primary Accession	O95072
Other Accession	NP_005123.2, NP_001041670.1
Reactivity	Human
Predicted	Bovine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32542
Calculated MW	62614
Antigen Region	194-222

Additional Information

Gene ID	9985
Other Names	Meiotic recombination protein REC8 homolog, Cohesin Rec8p, REC8, REC8L1
Target/Specificity	This REC8 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 194-222 amino acids from the Central region of human REC8.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	REC8 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	REC8
Synonyms	REC8L1
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 (By similarity).
Cellular Location	Nucleus {ECO:0000250|UniProtKB:Q6AYJ4}. Chromosome {ECO:0000250|UniProtKB:Q6AYJ4}. Chromosome, centromere {ECO:0000250|UniProtKB:Q6AYJ4}. Note=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 {ECO:0000250|UniProtKB:Q6AYJ4}
Tissue Location	Expressed in testis and thymus. Expressed in the B- cell lines WI-L2-NS and Namalwa (at protein level)

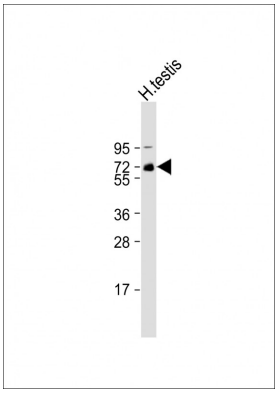
Background

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.

References

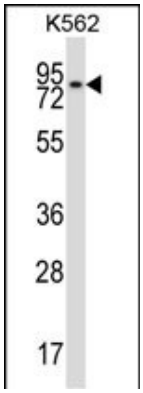
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Erenpreisa, J., et al. Exp. Cell Res. 315(15):2593-2603(2009)
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Images



Anti-REC8 Antibody (Center) at 1:1000 dilution + human testis lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 63 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

REC8 Antibody (Center) (Cat. #AP13570c) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the REC8 antibody detected the REC8 protein (arrow).



Citations

- REC8 suppresses tumor angiogenesis by inhibition of NF-κB-mediated vascular endothelial growth factor expression in gastric cancer cells

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.