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REC8 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13570c

Specification

REC8 Antibody (Center) - Product Information

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

REC8 Antibody (Center) - 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.

REC8 Antibody (Center) - 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}

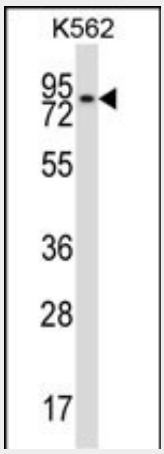
Tissue Location
Expressed in testis and thymus. Expressed in the B- cell lines WI-L2-NS and Namalwa (at protein level)

REC8 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

REC8 Antibody (Center) - Images



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).

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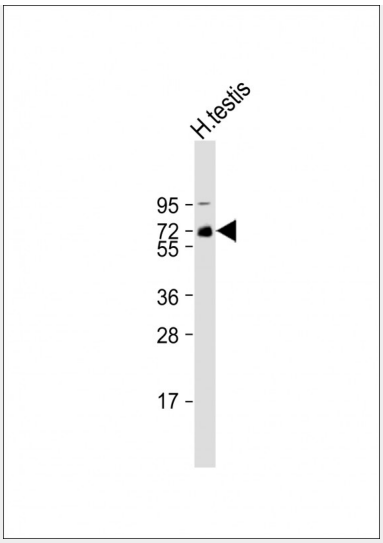

Anti-REC8 Antibody (Center) at 1:1000 dilution + human testis lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 63 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

REC8 Antibody (Center) - 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.

REC8 Antibody (Center) - References

Aston, K.I., et al. Hum. Reprod. 25(6):1383-1397(2010)
Erenpreisa, J., et al. Exp. Cell Res. 315(15):2593-2603(2009)
Griffin, J., et al. Syst Biol Reprod Med 54(3):163-165(2008)
Xu, H., et al. Dev. Cell 8(6):949-961(2005)
Prieto, I., et al. Chromosome Res. 12(3):197-213(2004)

REC8 Antibody (Center) - Citations

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