

REC8 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP13570c**Specification**

REC8 Antibody (Center) Blocking peptide - Product InformationPrimary Accession [O95072](#)**REC8 Antibody (Center) Blocking peptide - Additional Information****Gene ID** 9985**Other Names**

Meiotic recombination protein REC8 homolog, Cohesin Rec8p, REC8, REC8L1

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13570c was selected from the Center region of REC8. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

REC8 Antibody (Center) Blocking peptide - 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) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

REC8 Antibody (Center) Blocking peptide - Images**REC8 Antibody (Center) Blocking peptide - Background**

This gene encodes a member of the kleisin family of SMC(structural maintenance of chromosome) protein partners. Theprotein localizes to the axial elements of chromosomes duringmeiosis in both oocytes and spermatocytes. In the mouse, thehomologous protein is a key component of the meiotic cohesioncomplex, which regulates sister chromatid cohesion andrecombination between homologous chromosomes. Multiplealternatively spliced variants, encoding the same protein, havebeen found for this gene.

REC8 Antibody (Center) Blocking peptide - 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)