

SYCP2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP18626b

Product Information

Application	WB, E
Primary Accession	Q9BX26
Other Accession	NP_055073.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB30458
Calculated MW	175639
Antigen Region	1345-1372

Additional Information

Gene ID	10388
Other Names	Synaptonemal complex protein 2, SCP-2, Synaptonemal complex lateral element protein, hsSCP2, SYCP2, SCP2
Target/Specificity	This SYCP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1345-1372 amino acids from the C-terminal region of human SYCP2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	SYCP2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SYCP2
Synonyms	SCP2
Function	Major component of the axial/lateral elements of synaptonemal complexes

(SCS) during meiotic prophase. Plays a role in the assembly of synaptonemal complexes. Required for normal meiotic chromosome synapsis during oocyte and spermatocyte development and for normal male and female fertility. Required for insertion of SYCP3 into synaptonemal complexes. May be involved in the organization of chromatin by temporarily binding to DNA scaffold attachment regions. Requires SYCP3, but not SYCP1, in order to be incorporated into the axial/lateral elements.

Cellular Location

Nucleus {ECO:0000250|UniProtKB:Q9CUU3}. Chromosome {ECO:0000250|UniProtKB:Q9CUU3}. Note=In axial/lateral elements of the tripartite segments of synaptonemal complexes {ECO:0000250|UniProtKB:Q9CUU3}

Background

The synaptonemal complex is a proteinaceous structure that links homologous chromosomes during the prophase of meiosis. The protein encoded by this gene is a major component of the synaptonemal complex and may bind DNA at scaffold attachment regions. The encoded protein requires synaptonemal complex protein 3, but not 1, for inclusion in the synaptonemal complex. [provided by RefSeq].

References

- Aston, K.I., et al. Hum. Reprod. 25(6):1383-1397(2010)
Sugiyama, N., et al. Mol. Cell Proteomics 6(6):1103-1109(2007)
Deloukas, P., et al. Nature 414(6866):865-871(2001)
Schalk, J.A., et al. Mamm. Genome 10(6):642-644(1999)
Offenberg, H.H., et al. Nucleic Acids Res. 26(11):2572-2579(1998)

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