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SYCP3 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20774a

Product Information

Application	WB, E
Primary Accession	Q8IZU3
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB49743
Calculated MW	27729

Additional Information

Gene ID	50511
Other Names	Synaptonemal complex protein 3, SCP-3, SYCP3, SCP3
Target/Specificity	This SYCP3 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 13-46amino acids from the N-terminal region of human SYCP3.
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	SYCP3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SYCP3
Synonyms	SCP3
Function	Component of the synaptonemal complexes (SCS), formed between homologous chromosomes during meiotic prophase. Required for centromere pairing during meiosis in male germ cells (By similarity). Required for normal meiosis during spermatogenesis and male fertility

	(PubMed:14643120). Plays a lesser role in female fertility. Required for efficient phosphorylation of HORMAD1 and HORMAD2 (By similarity).
Cellular Location	Nucleus {ECO:0000250|UniProtKB:Q60547}. Chromosome {ECO:0000250|UniProtKB:Q60547}. Chromosome, centromere {ECO:0000250|UniProtKB:Q60547}. Note=It is present in early unpaired cores, in the lateral domains of the synaptonemal complex and in the chromosome cores when they separate at diplotene. It is found axial to the metaphase I chromosomes and in association with pairs of sister centromeres. The centromere-associated protein becomes dissociated from the centromeres at anaphase II and is not found in mitotic metaphase centromeres. {ECO:0000250|UniProtKB:Q60547}
Tissue Location	Testis-specific.

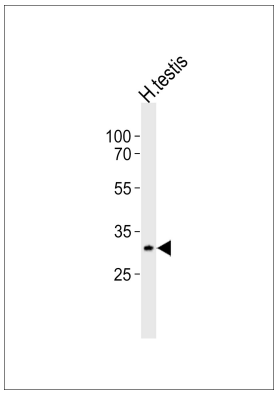
Background

Component of the transverse filaments of synaptonemal complexes (SCS), formed between homologous chromosomes during meiotic prophase. Has an essential meiotic function in spermatogenesis. May be important for testis development. Required for efficient phosphorylation of HORMAD1 and HORMAD2 (By similarity).

References

Martinez-Garay I.,et al.Genomics 80:259-267(2002).
Adamah D.J.B.,et al.Submitted (JUN-2002) to the EMBL/GenBank/DDBJ databases.
Miyamoto T.,et al.Lancet 362:1714-1719(2003).

Images



Western blot analysis of lysate from human testis tissue lysate, using SYCP3 Antibody (N-term)(Cat. #AP20774a). AP20774a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.

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