



POLYCLONAL ANTIBODY

For research use only. Not for clinical diagnosis.

Catalog No. NIG-L1-SHA2

Anti- dSPT16

BACKGROUND

dSPT16 is a *Drosophila* counterpart of the FACT subunit. FACT consists of a heterodimer of SSRP1 and SPT16 and was identified as a factor that facilitates chromatin transcription *in vitro*. Further studies revealed that the factor also facilitates various chromatin transactions such as transcriptional regulation, DNA replication and histone replacement. The antibodies against **dSPT16** are powerful tool for Western blots(Ref.1), immunostaining(Ref.2), immunoprecipitation and chromatin immunoprecipitation(Ref.1,2,3) in studies using *Drosophila*.

Product type	Primary antibodies
Antigen	Bacterially expressed N-terminal region of dSPT16 (amino acid residues 1-309)
Host	Rabbit
Clone	-
Isotype	-
Source	Serum
Form	Liquid
Concentration	-
Volume	100 ul
Label	Unlabeled
Specificity	dSPT16
Cross reactivity	<i>Drosophila</i>
Storage	Store at 4°C for a short time (below -70°C for prolonged storage). Aliquot to avoid cycles of freeze/thaw.
Other	

Application notes	<ul style="list-style-type: none">• Western Blotting: 1/4,000 - 1/8,000. Predicted molecular weight: about 130kDa
Recommended dilutions	<ul style="list-style-type: none">• Immunohistochemistry: 1/500 - 1/2,000• ELISA: 1/4,000 - 1/10,000• Immunoprecipitation: 0.5 – 2 ul• Chromatin immunoprecipitation: 1 - 4 ul

Other applications have not been tested.

Optimal dilutions/concentrations should be determined by the end user.

Staining Pattern

The antibodies stain nuclei of embryos, larval, pupal and adult tissues.

In the adult oocytes, a highly phosphorylated inactive form is deposited in the cytoplasm.

References	<ol style="list-style-type: none">1) SHIMOJIMA, T. et al. <i>Drosophila</i> FACT contributes to Hox gene expression through physical and functional interactions with GAGA factor. <i>Genes & Dev.</i> 17,1605-1616, 20032) Saunders, A. et al. Tracking FACT and RNA Polymerase II Elongation Complex Through hChromatin in Vivo. <i>Science</i>, 301, 1094-1096, 20003) Nakayama, T. et al. <i>Drosophila</i> GAGA factor directs histone H3.3 replacement that prevents the heterochromatin spreading. <i>Genes & Dev.</i> 21, 552-561, 2007
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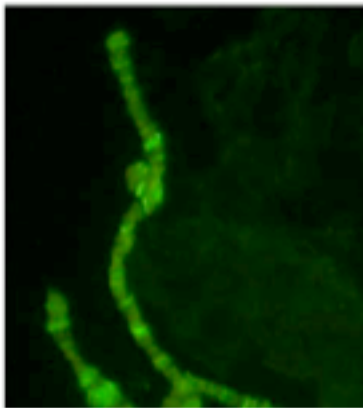


Fig.1 Immunostaining of a polytene chromosome(anti dSPT16 antibody)

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TOYO 2CHOME, KOTO-KU, TOKYO, 135-0016, JAPAN

URL: <http://www.cosmobio.co.jp>

e-mail: export@cosmobio.co.jp

[Outside Japan] Phone : +81-3-5632-9617

[国内連絡先] Phone : +81-3-5632-9610

FAX : +81-3-5632-9618

FAX : +81-3-5632-9619