



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: 1/1,000 - 1/2,000. Predicted molecular weight: about 93kDa
Recommended dilutions	<ul style="list-style-type: none">• Immunohistochemistry: 1/250 - 1/500• ELISA: 1/1,000 - 1/2,500• Immunoprecipitation: 2 - 8ul• Chromatin immunoprecipitation: 4 - 10 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

- 1) SHIMOJIMA, T. et al. *Drosophila* FACT contributes to Hox gene expression through physical and functional interactions with GAGA factor. *Genes & Dev.* 17,1605-1616, 2003
- 2) Saunders, A. et al. Tracking FACT and RNA Polymerase II Elongation Complex Through hChromatin in Vivo. *Science*, 301, 1094-1096, 2003
- 3) Nakayama, T. et al. *Drosophila* GAGA factor directs histone H3.3 replacement that prevents the heterochromatin spreading. *Genes & Dev.* 21, 552-561, 2007

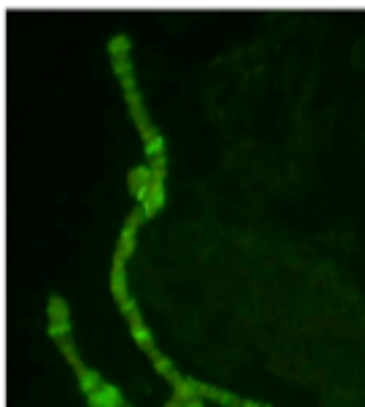


Fig.1 Immunostaining of a polytene chromosome(anti dSPT16 antibody)

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