

## **POLYCLONAL ANTIBODY**

For research use only. Not for clinical diagnosis.

### Catalog No. NIG-L1-SHA1

## Anti-dSSRP1

#### **BACKGROUND**

**dSSRP1** 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 **dSSRP1** are powerful tool for Western blots(Ref.1), immunostaining(Ref.2), immunoprecipitation and chromatin immunopreciptation(Ref.1,2,3) in studies using *Drosophila*.

**Product type** Primary antibodies

Antigen Bacterially expressed N-terminal region of dSSRP1 (amino acid residues 1-420)

Host Rabbit
Clone Isotype Source Serum

Form Liquid
Concentration Volume 100 ul
Label Unlabeled
Specificity dSSRP1
Cross reactivity Drosophila

**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**

Recommended dilutions

• Western Blotting: 1/1,000 - 1/2,000. Predicted molecular weight: about 93kDa

· Immunohistochemistry: 1/250 - 1/500

ELISA: 1/1,000 - 1/2,500 Immunoprecipitation: 2 - 8ul

· Chromain 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

- SHIMOJIMA, T. et al. Drosophila FACT contributesto 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 IIElongation Complex Through hChromatin in Vivo. Science, 301, 1094-1096, 200
- 3) Nakayama, T. et al. Drosophila GAGA factor directs histone H3.3 replacement that prevents the heterochromatin spreading. Genes & Dev. 21, 552-561, 2007

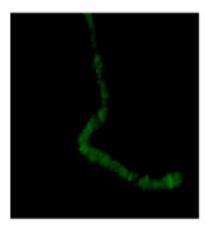


Fig.1 Immunostaining of a polytene chromosome(anti dSSRP1 antibody)

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