



lsw1p (Y-90): sc-98831

BACKGROUND

Transcriptional control involves a complex interplay between gene-specific activators, the general transcription apparatus and chromatin. Organization of genomic DNA into chromatin aids in the regulation of gene expression by limiting access to transcriptional machinery. The SWI/SNF family of complexes, which are conserved from yeast to humans, are ATP-dependent chromatin-remodeling enzymes required for the transcription of a number of genes in yeast. Iswp1 is a member of the imitation-switch (ISWI) class of ATP-dependent chromatin remodeling complexes. It is an ATPase whose distinct forms regulate each stage of the transcription cycle. Iswp1 forms a complex with loc2p and loc4p to regulate transcription elongation. It also forms a complex with loc3p to repress transcription initiation. Isw1p forms two separable complexes *in vivo* which differ in their abilities to bind to DNA and nucleosomal substrates, which possibly accounts for differences in specific activities in nucleosomal spacing and sliding.

REFERENCES

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SOURCE

Isw1p (Y-90) is a rabbit polyclonal antibody raised against amino acids 1-86 mapping at the N-terminus of Isw1p of *Saccharomyces cerevisiae* origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

Isw1p (Y-90) is recommended for detection of Isw1p of *Saccharomyces cerevisiae* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.