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Datasheet for 600-401-867

Swi6 Antibody

Overview

Description:	Anti-Swi6 (S.pombe) (RABBIT) Antibody - 600-401-867
Item No.:	600-401-867
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	S. pombe
Host Species:	Rabbit

Product Details

Background:	Swi6 is also known as chromatin-associated swi6 protein and repression of silent mating type loci protein. This protein recognizes and binds to histone H3 tails that are methylated at Lys-9, leading to epigenetic repression. Swi6 is also involved in the repression of the silent mating-type loci MAT2 and MAT3 and it may be responsible for the compaction of MAT2/3 into a heterochromatin-like conformation which represses the transcription of these silent cassettes. Swi6 also interacts with the cohesion subunit psc3. Swi6 has a nuclear localization and contains 2 chromo domains.
Synonyms:	rabbit anti-Swi6 antibody, Chromatin-associated protein swi6, swi-6, swi 6, SPAC664.01c, SPAC824.10c
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	swi6
Reactivity:	S. pombe
Immunogen Type:	Conjugated Peptide
Immunogen:	This anti-Swi6 Antibody was prepared from whole rabbit antiserum produced by repeated immunizations with a synthetic peptide corresponding aa 314-328 of S.pombe Swi6 protein.

Purity/Specificity:	Swi6 Antibody is an affinity purified antibody produced by immunoaffinity chromatography using peptide coupled to agarose beads followed by solid phase adsorption to remove any unwanted reactivities. BLAST analysis indicates that cross reactivity with homologues of this protein from other sources is not likely.
Relevant Links:	• UniProtKB - P40381 • NCBI - 19114361 • GeneID - 2541633

Application Details

Tested Applications:	ELISA, WB
Application Note:	This affinity purified antibody has been tested for use in ELISA and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 37 kDa in size corresponding to Swi6 protein by western blotting in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000 - 1:30,000
WB:	1:500 - 1:3,000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

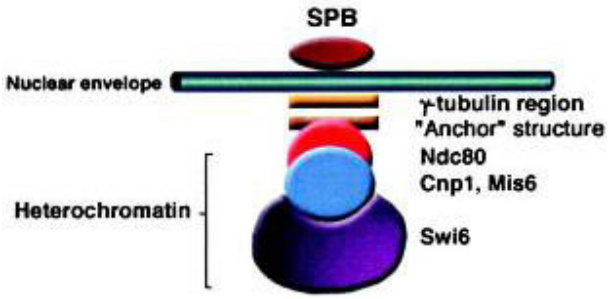
Shipping Condition:	Dry Ice
Storage Condition:	Store Swi6 Antibody at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western blot analysis is shown using Rockland's Affinity Purified anti-Swi6 antibody to detect endogenous protein present in S.pombe lysate (arrowhead). Comparison to a molecular weight marker (not shown) indicates a band of ~43 kDa corresponding to S.pombe Swi6 protein. ~35µg of lysate was loaded per lane onto a 4-20% gradient gel for SDS-PAGE followed by transfer to 0.45 µm nitrocellulose. The blot was incubated with a 1:1,700 dilution of the antibody at room temperature for 2 h followed by detection using IRDye™800 labeled Goat-a-Rabbit IgG [H&L] (611-132-122) diluted 1:5,000 for 45 min. IRDye™800 fluorescence image was captured using the Odyssey® Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.



SDS-PAGE
The distribution of Ndc80, Cnp1, and Swi6 proteins are indicated in relation to the observed centromeric anchor and heterochromatin structures. See Kniola et al for additional details.

References

- Nucleic Acids Res. Phosphorylation of HP1/Swi6 relieves competition with Suv39/Clr4 on nucleosomes and enables H3K9 trimethyl spreading. *Kennedy DR et al.* (2025)

Disclaimer

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