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Anti-Swi6 (S.pombe) (RABBIT) Antibody

Swi6 Antibody
Catalog # ASR5304

Specification

Anti-Swi6 (S.pombe) (RABBIT) Antibody - Product Information

Host	**Rabbit**
Conjugate	**Unconjugated**
Target Species	**Saccharomyces pombe**
Reactivity	**Schizosaccharomyces pombe**
Clonality	**Polyclonal**
Application	**WB, E, I, LCI**
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.**
Physical State	**Liquid (sterile filtered)**
Buffer	**0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2**
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.**
Preservative	**0.01% (w/v) Sodium Azide**

Anti-Swi6 (S.pombe) (RABBIT) Antibody - Additional Information

Gene ID 2541633

Other Names
2541633

Purity
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.

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.

Precautions Note

This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-Swi6 (S.pombe) (RABBIT) Antibody - Protein Information

Name swi6

Function
Recognizes and binds histone H3 tails methylated at 'Lys-9', leading to epigenetic repression. Involved in the repression of the silent mating-type loci MAT2 and MAT3. May compact MAT2/3 into a heterochromatin-like conformation which represses the transcription of these silent cassettes.

Cellular Location
Nucleus.

Anti-Swi6 (S.pombe) (RABBIT) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Swi6 (S.pombe) (RABBIT) Antibody - Images

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. ~35 µg 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.

Anti-Swi6 (S.pombe) (RABBIT) Antibody - 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.