Bio Academia
Manufacturer

AS ONE

Anti-Taf14 (S. cerevisiae) antibody, rabbit polyclonal

Catalog # 62-025　100 ul

Taf14 functions as a component of the DNA-binding general transcription factor complex TFIID, the RNA polymerase II associated general transcription factor complex TFIIF, and the chromatin-remodeling complex SWI/SNF. Binding of TFIID to a promoter (with or without TATA element) is the initial step in preinitiation complex (PIC) formation. TFIID plays a key role in the regulation of gene expression by RNA polymerase II through different activities such as transcription activator interaction, core promoter recognition and selectivity, TFIIA and TFIIB interaction, chromatin modification (histone acetylation by TAF1), facilitation of DNA opening and initiation of transcription. TFIIF is essential for the initiation of transcription by RNA polymerase II. TFIIF functions include the recruitment of RNA polymerase II to the promoter bound DNA-TBP-TFIIB complex, decreasing the affinity of RNA polymerase II for non-specific DNA, allowing for the subsequent recruitment of TFIIE and TFIIH, and facilitating RNA polymerase II elongation. The TAf14 subunit has stimulatory activity. Component of the SWI/SNF complex, an ATP-dependent chromatin-remodeling complex, is required for the positive and negative regulation of gene expression of a large number of genes. It changes chromatin structure by altering DNA-histone contacts within a nucleosome, leading eventually to a change in nucleosome position, thus facilitating or repressing binding of gene-specific transcription factors.

Applications

Western blot 1:500-2,000 dilution
Not tested for other applications.

Specifications

Immunogen: Recombinant His-tagged Taf14 protein produced in E. coli
Reactivity: S. cerevisiae Taf14 protein. Not tested with other species
Form: Whole antiserum added with 0.1% sodium azide
Shipped at 4°C and stored at -20°C

Data Link

UniProt P35189 (TAF14_YEAST), SGD S000006050 TAF14 / YPL129W

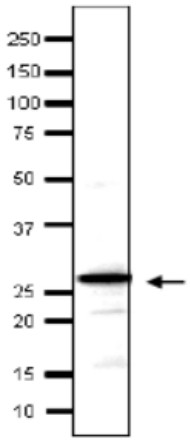

Figure 1. Detection of endogenous Taf14 in whole cell extract of S. cerevisiae by Western blot, using the anti-Taf14 antibody. The antibody was used at 1/500 dilution. As second antibody, HRP-conjugated goat anti-rabbit IgG was used at 1/10,000