SANTA CRUZ BIOTECHNOLOGY, INC.

Yra1 (yC-14): sc-13930

BACKGROUND

The complexity of eukaryotic mRNA processing suggests a need for certain factors known as RNA chaperones that can modulate RNA secondary structure as well as the interactions between pre-mRNA and trans-acting components. Following transcription and processing, eukaryotic mRNAs are exported from the nucleus to the cytoplasm for translation. Yeast Yra1p is a member of the RNA and export factor binding proteins that localizes to the nucleus where it associates with RNA and Mex67p. Yra1p is required for export of poly(A)+ mRNA from the nucleus. Yra2p can substitute for Yra1p function.

REFERENCES

1. Portman, D.S., et al. 1997. YRA1, an essential *Saccharomyces cerevisiae* gene, encodes a novel nuclear protein with RNA annealing activity. Rna 3: 527-537.
2. Zenklusen, D., et al. 2001. The yeast hnRNP-Like proteins Yra1p and Yra2p participate in mRNA export through interaction with Mex67p. Mol Cell Biol 21: 4219-4232.
3. Lei, E.P., et al. 2001. Messenger RNAs are recruited for nuclear export during transcription. Genes Dev 15: 1771-1782.
4. Preker, P.J., et al. 2002. Expression of the essential mRNA export factor Yra1p is autoregulated by a splicing-dependent mechanism. Rna 8: 969-980.
5. Lei, E.P., et al. 2002. Intron status and 3'-end formation control cotranscriptional export of mRNA. Genes Dev 16: 2761-2766.
6. Yu, M.C., et al. 2004. Arginine methyltransferase affects interactions and recruitment of mRNA processing and export factors. Genes Dev 18: 2024-2035.
7. Gilbert, W., et al. 2004. The Glc7p nuclear phosphatase promotes mRNA export by facilitating association of Mex67p with mRNA. Mol Cell 13: 201-212.
8. Kashyap, A.K., et al. 2005. Biochemical and genetic characterization of Yra1p in budding yeast. Yeast 22: 43-56.
9. SWISS-PROT/TrEMBL (Q12159). World Wide Web URL: http://www.expasy.ch/sprot/sprot-top.html

SOURCE

Yra1 (yC-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Yra1 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.

Blocking peptide available for competition studies, sc-13930 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Yra1 (yC-14) is recommended for detection of Yra1 of *Saccharomyces cerevisiae* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) 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 donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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.

STORAGE

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

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.