

Monoclonal Antibody to Eukaryotic RNA Polymerase II



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Assigned to WARF as biological material.

The Wisconsin Alumni Research Foundation (WARF) is seeking commercial partners interested in a monoclonal antibody against the largest subunit of RNA polymerase II.

OVERVIEW

The enzyme RNA polymerase II synthesizes precursors to mRNAs and small nuclear RNAs. Sequence analysis of the largest subunit of RNA polymerase II has revealed an unusual heptapeptide repeat at the molecule's C-terminal end. This domain is highly conserved in mammals and yeast, and less well conserved in *Drosophila*.

THE INVENTION

UW-Madison researchers have developed a monoclonal antibody against the largest subunit of RNA polymerase II. The antibody was isolated by using RNA polymerase II purified from wheat germ. It reacts with the largest, unproteolyzed subunit of RNA polymerase II from a variety of eukaryotic organisms. It also reacts with a synthetic peptide containing three repeats of the consensus sequence for the C-terminus heptapeptide domain.

APPLICATIONS

- Studying the role of the heptapeptide repeat region in transcription initiation
- Studying RNA polymerase II in various organisms

KEY BENEFITS

- Applicable to a variety of eukaryotic organisms

ADDITIONAL INFORMATION

Tech Fields

THE WARF ADVANTAGE

Since its founding in 1925 as the patenting and licensing organization for the University of Wisconsin-Madison, WARF has been working with business and industry to transform university research into products that benefit society. WARF intellectual property managers and licensing staff members are leaders in the field of university-based technology transfer. They are familiar with the intricacies of patenting, have worked with researchers in relevant disciplines, understand industries and markets, and have negotiated innovative licensing strategies to meet the individual needs of business clients.



Research Tools - Antibodies

CONTACT INFORMATION

For current licensing status, please contact Jennifer Gottwald at jennifer@warf.org or 608-960-9854.

