

Mouse Monoclonal Antibody Against the Sigma70 Subunit of *E. coli* RNA Polymerase



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WARF: P07502US

Assigned to WARF as biological material.

The Wisconsin Alumni Research Foundation (WARF) is seeking commercial partners interested in developing a mouse monoclonal antibody against an *E. coli* sigma factor.

OVERVIEW

RNA polymerase is the enzyme responsible for DNA transcription, the process of making an RNA copy of a DNA gene sequence. Transcription begins at DNA sequences called promoters. In bacteria, a sigma factor directs the polymerase to gene promoters, ensuring that transcription occurs only where it is supposed to.

THE INVENTION

UW-Madison researchers have developed a mouse monoclonal antibody (mAb) against an *E. coli* sigma factor. Known as 2F8, this mAb specifically recognizes the sigma70 transcription factor, which is the main sigma factor.

APPLICATIONS

- Chromatin immunoprecipitation (ChIP), Western blot and immunoprecipitation (IP) experiments

ADDITIONAL INFORMATION

Publications

Raffaella M., Kanin E.I., Vogt J., Burgess R.R. and Ansari A.Z. 2005. Holoenzyme Switching and Stochastic Release of Sigma Factors from RNA Polymerase *in Vivo*. *Mol. Cell.* 22, 357-366.

Tech Fields

Research Tools - Antibodies

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.



CONTACT INFORMATION

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