

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

### WARF: P07502US

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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

#### Publications

• Raffaelle 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

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

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