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## Technical data

### **MAb to $\beta'$ (beta prime) subunit of *E.coli* RNA polymerase**

$\beta'$  (beta prime) is a 155 kDA subunit of the *E.coli* RNA polymerase. This antibody cross reacts with several prokaryotic RNA polymerases and recognizes Softag 1 epitope tagged proteins.

#### Technical Data

<b>Catalog Number</b>	W0001
<b>Host</b>	Mouse
<b>Isotype</b>	IgG <sub>1</sub>
<b>Epitope</b>	1295-1417 (SLAELLNAGLGGS)
<b>Polyol-responsive</b>	Yes
<b>Clone</b>	NT73
<b>Cross reactivity*</b>	Enterics, Borellia burgdorferi, Salmonella
<b>Available size</b>	100 $\mu$ l dried ascites, 1mL aliquots ascites fluid

#### Handling requirements

<b>Reconstitution</b>	Add 100 $\mu$ l of ddH <sub>2</sub> O to the tube containing antibody and mix to dissolve
<b>Storage</b>	-20°C

#### Applications\*

<b>Gel Supershift</b>	Not tested
<b>Immunoaffinity chromatography</b>	Yes – AS/PG, NaCl/PG, AS/EG, NaCl/EG
<b>Immunoprecipitates</b>	Yes
<b>Transcription Inhibition - Initiation</b>	Not tested
<b>Transcription Inhibition - Elongation</b>	No
<b>Western Blot</b>	Yes – dilute at 1:1000

#### Related products

<b>Catalog reference</b>	<b>Antibody name</b>
<b>W0003</b>	mAb to E.coli RNA polymerase subunit $\alpha$
<b>W0002</b>	mAb to E.coli RNA polymerase subunit $\beta$
<b>W0003</b>	mAb to E.coli RNA polymerase subunit $\alpha$
<b>W0023</b>	mAb to E.coli RNA polymerase subunit $\beta$
<b>S001</b>	Softag 1 Resin

#### Notes

This mAb is extremely useful for purifying holoenzymes from enterics. It does not cross-react with mycobacterial *M. smegmatis* RNAP. \*Cross reactivity and Applications data is per published literature and/or unpublished data.

#### References

- Thompson, N. E., Hager, D. A., and Burgess R. R. (1992). Isolation and characterization of polyol-responsive monoclonal antibody useful for gentle purification of Escherichia coli RNA polymerase. *Biochemistry* 31, 7003-8.
- Thompson, N., Arthur T., and Burgess, R.R. (2003). Development of a new epitope tag for the gentle purification of proteins by immunoaffinity chromatography. *Anal. Biochem.* 323,171-179