

Mouse RNA polymerase beta Monoclonal Antibody

Anti-E. coli RNA Polymerase beta Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA78934	Mouse	E. coli, Bordetella, Chlamydiae, Myxococcus, Salmonella, Vibrio	Immunoprecipitation, ELISA, Western Blot

PRODUCT SYNONYMS

RNA polymerase beta; Monoclonal Antibody; Anti-E. coli RNA Polymerase beta Antibody; RNAP subunit beta; rpoB; groN; nitB; rif; ron; stl; stv; tabD; RNA polymerase subunit beta; Transcriptase subunit beta; anti-RNA polymerase beta antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	E. coli, Bordetella, Chlamydiae, Myxococcus, Salmonella, Vibrio
Clonality	Monoclonal
Isotype	IgG1
Clone Number	8RB13
Specificity	RNA polymerase beta (E. coli RNA Polymerase)
Form/Format	Ascites
Applicable Applications for anti-RNA polymerase beta antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Purified recombinant E. coli RNA polymerase beta subunit.
Cross Reactivity Note	Most bacterial RNAP including Bordetella, Chlamydia, E Coli, Myxococcus, Salmonella, Vibrio
Preparation	Dried ascites
Polyol-responsive	Yes
Reconstitution	Add 100 ul ddH ₂ O to tube and mix to dissolve
Product Note	This mAb is extremely useful for detecting or purifying core RNAP from a broad range of bacteria. The purified polymerase is highly active for in vitro transcription. *Cross reactivity and Applications data is per published literature and/or unpublished data
Structure	1252 amino acids with a predicted molecular weight of approximately 150 kD.
Distribution	Bacteria
Function	Transcriptional regulator in bacteria.
Preparation and Storage	Store lyophilized antibody at -20°C. Avoid repeat freeze/thaw cycles.

IMAGES



WB (Western Blot)



WB (Western Blot)

Total cell lysates (15 ug total protein) from E. Coli BL21 cells were resolved by 4-12% Bis-Tris gel electrophoresis, transferred to a nitrocellulose membrane, and probed with 0.01 ug/mL (1:100,000 dilution) of Purified anti-E. Coli RNA Polymerase Beta Antibody, clone 8RB13, overnight at 4 degree C. Proteins were visualized by chemiluminescence detection using HRP goat anti-mouse IgG Antibody at a 1:3000 dilution. Lane M: Molecular Weight marker.

ADDITIONAL INFORMATION

Related Product Information for anti-RNA polymerase beta antibody	RNA polymerase (RNAP or RNAPol) is an enzyme that produces primary transcript RNA. The beta subunit is the second-largest subunit, and is encoded by the rpoB gene. RNA polymerase beta is a subunit which, along with rpoC, limits core polymerase expression.
References	Bergendahl, V., Thompson, N., Foley, K., Olson, B., and Burgess, R.R. (2003). A cross-reactive polyolresponsive monoclonal antibody useful for isolation of core RNA polymerase from many bacterial species. Protein Expression and Purification, 31, 155-160. Burgess, R.R. and Thompson, N. (2002). Advances in gentle immunoaffinity purification. Curr. Opin. Biotech. 13,304-308.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/rna-polymerase-beta-antibody-clone-8rb13-immunoprecipitation-western-blot-elisa/78934>