

Anti-*E. coli* RNA Polymerase ImmunoAffinity Resin

Catalog# / Size	673801 / 1 mL
Clone	8RB13
Regulatory Status	RUO
Other Names	RNAP subunit beta, rpoB, groN, nitB, rif, ron, stl, stv, tabD, RNA polymerase subunit beta, Transcriptase subunit beta
Previously	NeoClone Catalog# S0004
Isotype	Mouse IgG2b, κ
Description	RNA polymerase (RNAP or RNAPol) is an enzyme that produces primary transcript RNA. The β subunit is the second-largest subunit, and is encoded by the roB gene. RNA polymerase β is a subunit which, along with α (rpoC), limits core polymerase expression.

Product Details

Verified Reactivity	<i>E. coli</i> , <i>Bordetella</i> , <i>Chlamydiae</i> , <i>Myxococcus</i> , <i>Salmonella</i> , <i>Vibrio</i>
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Purified recombinant <i>E. coli</i> RNA polymerase β subunit.
Formulation	50% anti- <i>E. coli</i> RNA Polymerase antibody conjugated resin is supplied in 1X PBS and 0.09% NaN ₃ . The volume specified for each catalog number indicates the volume of resin included.
Storage & Handling	Store at 4°C until use. Use at room temperature.
Application	IP - Quality tested
Recommended Usage	Resin binding capacity is approximately 0.15 mg/mL. To elute, use TE, 0.7M ammonium sulfate, 40% propylene glycol.
Application Notes	Clone 8RB13 is extremely useful for detecting or purifying core RNAP from a broad range of bacteria. The purified polymerase is highly active for <i>in vitro</i> transcription. Additional reported applications (for the relevant formats) include: immunoprecipitation ³ . The epitope of clone 8RB13 has been mapped to the sequence PEEKLLRAIFGEKAS ³ .
Application References	1. Bergendahl V, et al. 2003. <i>Protein Expr. Purif.</i> 31:155. 2. Burgess RR and Thompson NE. 2002. <i>Curr. Opin. Biotechnol.</i> 13:304. 3. Stalder, ES. et al. 2011. <i>Protein Expr. Purif.</i> 77(1):26-33. (Epitope, ELISA, IP, WB)
(PubMed link indicates BioLegend citation)	

Antigen Details

Structure	1252 amino acids with a predicted molecular weight of approximately 150 kD.
Distribution	Bacteria.
Function	Transcriptional regulator in bacteria.
Biology Area	Cell Biology, Transcription Factors
Molecular Family	Nuclear Markers
Antigen References	1. Thompson NE, et al. 1992. <i>Biochemistry</i> 31:7003. 2. Jerald Hurwitz, et al. 2005. <i>J. Biol. Chem.</i> 280:42477. 3. Hirata A, et al. 2008. <i>Nature.</i> 451:851.

4. Bergendahl IV, *et al.* 2003. *Protein Expr. Purif.* 31:155.
5. Burgess RR and Thompson NE. 2002. *Curr. Opin. Biotechnol.* 13:304.

Gene ID [948488](#)

Other Formats

Anti-*E. coli* RNA Polymerase ImmunoAffinity Resin, Anti-*E. coli* RNA Polymerase β , Purified anti-*E. coli* RNA Polymerase β , Direct-Blot™ HRP anti-*E. coli* RNA Polymerase β

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