

Anti-*E.coli* DNA polymerase 1 antibody, rabbit serum

Product code	61-012
Size	100 µl
Storage	Store 4°C for short term For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Concentration	N/A
Buffer	0.05% sodium azide
Purity	Rabbit antiserum
Immunogen	Full-size recombinant <i>E. coli</i> DNA polymerase 1.
Isotype	Rabbit IgG
Reactivity	<i>E. coli</i> pyrimidine dimer photolyase
Special notes	N/A
Application	1. Western blot. (1/1,000~ 1/5,000 dilution) 2. Immunoprecipitation (assay dependent) Not tested for other applications
Background	<i>E. coli</i> DNA polymerase 1 (928 aa; 103 kDa) is encoded by <i>polA</i> gene and involved in DNA replication and repair. In addition to polymerase activity, this DNA polymerase exhibits 3' to 5' and 5' to 3' exonuclease activity. It is able to utilize nicked circular duplex DNA as a template and can unwind the parental DNA strand from its template.
Data Link	uniprot/P00582 <i>E. coli</i> DNA polymerase 1
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

Data Images: 61-012 Anti-*E.coli* DNA polymerase 1 antibody, rabbit serum

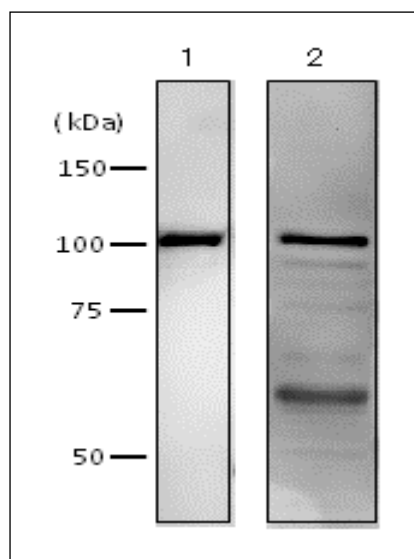


Fig.1 Western blot analysis of DNA polymerase 1 in crude extract of *E. coli* cells by using anti-DNA polymerase 1 antibody.

1. Purified *E. coli* DNA polymerase 1 (10 ng)
2. Sonic lysate supernatant of *E. coli* strain AB1157 cells.

Primary antibody was used at 1/2,000 dilution.

Predicted molecular mass of DNA polymerase 1 is 103 kDa.

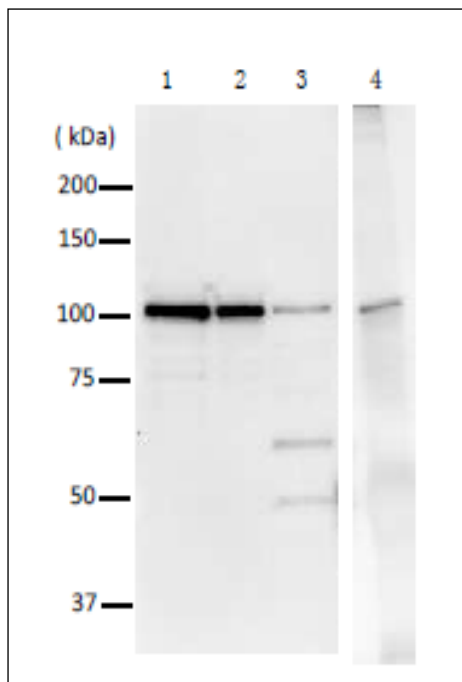


Fig.2 Immunoprecipitation of DNA polymerase 1 from crude lysate of E. coli with anti-DNA polymerase 1 antibody

1. Purified DNA polymerase 1 (20 ng), WB
2. Purified DNA polymerase 1 (10 ng), WB
3. Crude lysate of E. coli strain AB1157 (10 µg), WB
4. The crude lysate of E.coli cells was reacted with anti-DNA polymerase 1 antibody and precipitated with protein G conjugated magnetic beads, and analyzed by WB by using anti-DNA polymerase 1 antibody. As the secondary antibody, anti-rabbit IgG antibody conjugated with HRP for IP (Abcam 131368) was used.

References: This antibody has not been used in publication yet.