



# DNA pol I Monoclonal Antibody

| Catalog No         | BYmab-01663  |
|--------------------|--|
| Isotype            | IgG  |
| Reactivity         | Human;Rat;Mouse;   |
| Applications       | WB   |
| Gene Name          | POLI   |
| Protein Name       | DNA polymerase iota  |
| Immunogen          | The antiserum was produced against synthesized peptide derived from human POLI. AA range:641-690   |
| Specificity        | DNA pol   Monoclonal Antibody detects endogenous levels of DNA pol  protein.   |
| Formulation        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  |
| Source             | Monoclonal, Mouse,IgG  |
| Purification       | The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.   |
| Dilution           | WB 1:500-2000  |
| Concentration      | 1 mg/ml  |
| Purity             | ≥90%   |
| Storage Stability  | -20°C/1 year   |
| Synonyms           | POLI; RAD30B; DNA polymerase iota; Eta2; RAD30 homolog B   |
| Observed Band      | 85kD   |
| Cell Pathway       | Nucleus . Binding to ubiquitin mediates localization to replication forks after UV-induced DNA damage  |
| Tissue Specificity | Ubiquitous. Highly expressed in testis.  |
| Function           | catalytic activity:Deoxynucleoside triphosphate + DNA(n) = diphosphate + DNA(n+1)cofactor:Magnesium,domain:The catalytic core consists of fingers, palm and thumb subdomains, but the fingers and thumb subdomains are much smaller than in high-fidelity polymerases; residues from five sequence motifs of the Y-family cluster around an active site cleft that can accommodate DNA and nucleotide substrates with relaxed geometric constraints, with consequently higher rates of misincorporation and low processivityfunction:Error-prone DNA polymerase specifically involved in DNA repair. Plays an important role in translesion synthesis, where the normal high-fidelity DNA polymerases cannot proceed and DNA synthesis stalls. Favors Hoogsteen base-pairing in the active |

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#### **Background**

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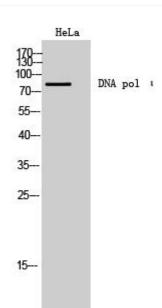
## matters needing attention

Avoid repeated freezing and thawing!

### **Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

### **Products Images**



Western Blot analysis of various cells using DNA pol

Monoclonal Antibody

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